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February 16, 2011

Ms. Erin Brittain
Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: **Quarterly Monitoring Progress Report – 4th Quarter 2010**
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Ms. Brittain:

This *Quarterly Monitoring Progress Report* is being submitted to the Indiana Department of Environmental Management (IDEM) by MUNDELL & ASSOCIATES, INC. (MUNDELL), on behalf of AIMCO, to summarize further site characterization, remediation activities and quarterly monitoring performed from October 1 through December 31, 2010. The following sections provide detailed discussions of the results of this work. All activities were completed on schedule.

GROUNDWATER MONITORING NETWORK SAMPLING

Between October 12 and 14, 2010, quarterly groundwater sampling of the existing twenty-five (25) monitoring wells established with IDEM, and the two (2) additional monitoring wells on the Floral Park Cemetery property was performed. The following constitute this quarterly groundwater monitoring network:

- 1) *Twenty-four (24) MUNDELL monitoring wells:* MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-11S, MMW-11D, MMW-12S, MMW-13D, MMW-14D, MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-09S, MMW-P-09D, MMW-P-10S,

MMW-P-10D and MMW-C-01 and MMW-C-02 (MUNDELL wells on Floral Park Property).

- 2) One (1) Keramida/Environ monitoring well: MW-168D.

MUNDELL also measured static groundwater elevations via an electric oil/water interface probe from the above listed monitoring well network. Additional wells gauged during this sampling event include: MMW-2S, MMW-3S, MMW-4D, MMW-5D, MMW-6D, MMW-7S, MW-167S, MW-168S, MW-170S, MW-170D, MW-171S and MW-171D. All monitoring well locations are presented on **Figure 1**.

During this investigation, monitoring wells MMW-P-10S and MMW-P-10D were found to contain black sediment and flakes throughout the water column. Black precipitate in groundwater can indicate the presence of iron reducing bacteria. Limited ferrous iron analyses following the initial CAP 18TM injection in August 2007 indicate slight elevations of ferrous iron concentrations within these monitoring wells, suggesting the black precipitate observed is potentially the byproduct of reductive biotransformation within the aquifer.

Monitoring well sampling, survey and construction data are provided in **Table 1**, and the shallow potentiometric surface map is illustrated in **Figure 2**. Groundwater elevations collected from monitoring wells screened in the deeper saturated units were not included in the calculation of the shallow potentiometric surface.

The wells were sampled utilizing the dedicated bladder pumps for uniform low-flow purging and sample collection. The Troll 9500 multi-parameter meter (used inline with the dedicated bladder pumps) logs geochemical parameters (temperature, pH, dissolved oxygen, conductivity and oxidation-reduction potential), which help remove a minimal but sufficient amount of water (indicated by stabilization of geochemical parameters) to sample the well. The Troll helps assess the geochemical parameters as evidence of conditions naturally conducive to natural attenuation existing in the aquifer. All excess purge water was transported to 55-gallon drums located at the Site for proper disposal. In accordance with IDEM guidelines, the contents in each drum were then identified with a label describing them as non-hazardous materials.

As agreed in the October 29th, 2008, meeting with IDEM and detailed in the *Remediation Work Plan Addendum* November 2008, groundwater samples were submitted to Pace Analytical Laboratories (Pace) in Indianapolis, Indiana, for the shorter list of Volatile Organic Compound (VOC) analysis via U.S. EPA SW-846 Method 8260, along with appropriate duplicate (DUP), matrix spike (MS) and matrix spike duplicate (MSD). Groundwater samples were transferred into three 40-milliliter glass sample vials containing the preservative hydrochloric acid (HCl). Groundwater sample vials were sealed in plastic bags and placed in a cooler containing ice and delivered to Pace using appropriate chain-of-custody protocol for laboratory tests. Pace laboratory certificates of analysis for the groundwater samples analyzed are presented in **Appendix A**.

Baseline groundwater geochemical parameters (pH, dissolved oxygen, oxidation-reduction potential, conductivity and temperature) were measured with a low-flow cell and multi-parameter water quality probe in the post-injection period to evaluate whether aquifer conditions continue to be favorable for natural attenuation of the indicator compounds at the Site. Anaerobic conditions which support the reductive dechlorination process currently exist in the aquifer.

Aquifer chemical parameter testing has previously been performed and will be scheduled based on the observed response and remedial status in each plume area going forward. Additional aquifer parameters including methane, ethene and ethane are periodically analyzed to evaluate indicator compound breakdown and redox-sensitivity. In addition, volatile fatty acids (VFA) will also be tested periodically to evaluate substrate distribution and lifetime duration of the product. These samples will be collected in select monitoring wells representative of each plume to monitor the presence of residual CAP 18TM in the aquifer and to provide additional monitoring of aquifer conditions.

U.S. EPA SURVEY & GROUNDWATER LEVEL GAUGING EVENT

A unified elevation survey and water level gauging event was conducted by the United States Environmental Protection Agency (U.S. EPA) on October 13, 2010. The gauging event included monitoring wells on the Michigan Plaza and Apartments site, Genuine Parts site and Allison Transmission site. Unified results are not included in this quarterly monitoring report. The U.S. EPA data are currently under review and will be considered for use during the second quarter 2011 groundwater sampling event.

GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical testing results for this quarter are summarized in **Table 2** and presented on **Figure 3**. One (1) out of the twenty-five (25) monitoring wells sampled this quarter (MMW-1S) showed PCE concentrations exceeding the IDEM RISC Industrial Default Closure Level (IDCL). Two (2) monitoring wells (MMW-8S and MMW-P-02) demonstrated PCE concentrations exceeding the IDEM RISC Residential Default Closure Level (RDCL) but below the IDCL. The historical groundwater results are included in **Table 3**. The historical indicator compounds trends in groundwater are presented in **Figure 4**.

None of the monitoring wells showed TCE concentrations exceeding the IDEM RISC IDCL, with one (1) monitoring well (MMW-1S) exhibiting a level exceeding the RDCL, but below the IDCL.

Three (3) monitoring wells (MMW-9S, MMW-13D and MMW-P-01) showed cis-1,2-DCE concentrations exceeding the IDEM RISC IDCL. Seven (7) monitoring wells (MMW-1S, MMW-10S, MMW-11S, MMW-11D, MMW-14D, MMW-P-03S and MMW-P-07) exhibited cis-1,2-DCE concentrations exceeding the RDCL, but below the IDCL. Eight (8) monitoring wells (MMW-8S, MMW-12S, MMW-P-02, MMW-P-04, MMW-P-05, MMW-P-08,

MMW-P-10S and MMW-C-01) exhibited cis-1,2-DCE concentrations under IDEM RISC RDCL but above the detection limit.

Nineteen (19) monitoring wells (MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-13D, MMW-14D, MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-09D, MMW-P-10S, MMW-P-10D, MW-168D and MMW-C-01) showed vinyl chloride concentrations exceeding the IDEM RISC IDCL.

The deep monitoring well MMW-13D exhibited a cis-1,2-DCE groundwater concentration exceeding the RDCL, while both MMW-13D and MMW-14D exhibited vinyl chloride exceedances above IDCLs this quarter. Since these wells have been purposefully located upgradient of all three **Chemical Source Areas**, the impacts observed in these areas demonstrate groundwater impacts that are attributable to other upgradient, off-site sources and not to Michigan Plaza. The locations of all three **Chemical Source Areas** are presented on **Figure 1**. As seen on **Figure 4** the indicator compound concentrations at these deep, upgradient wells can be considered as “background levels” defined as the concentration of contaminants from the Genuine source coming into the deeper aquifer in this area. These indicator compound levels aid in discerning between the Michigan Plaza source impacts and the Genuine Site impacts, and will ultimately be used to evaluate the target cleanup levels for the deeper aquifer at the Site.

IN-SITU BIOREMEDIATION PROGRESS

Based upon the 1) extent and severity of the indicator compound concentrations and trends; 2) site-specific operational constraints and uses; 3) geochemical and physical characteristics of the aquifer; and 4) economic factors, in-situ bioremediation with CAP 18TM, followed by Monitored Natural Attenuation (MNA) is the selected remediation technology for the Site for treating groundwater, as detailed in the *RWP*. The initial CAP 18TM injection was performed in each of the three source areas in August 2007 using a direct push Geoprobe system. Locations and spacing of the injection points were designed to address the sewer line related **Chemical Source Areas** and provide injection locations in each **Chemical Source Area** that upon migration downgradient in the direction of groundwater flow, are expected to remediate the most significant groundwater impacts. A booster CAP 18TM injection was performed in February 2009 to aggressively treat some areas where the chemical concentrations have begun to stabilize or are decreasing at a slow rate. During this quarter, no additional CAP 18TM injections have been performed; however, technical evaluation of the need for a final injection is being completed for selected chemical source areas.

Indicator Chemical Trends

A group of monitoring wells from the sampling network is utilized to monitor dissolved indicator compound concentration trends over time at various locations within the heart of the three **Chemical Source Areas**. Graphs of historical PCE, TCE, cis-1,2-DCE and vinyl chloride concentrations are developed for the following monitoring wells:

Source Area A: MMW-P-03D

Source Area B: MMW-P-01, MMW-P-07, MMW-P-08 and MMW-8S

Source Area C: MMW-1S, MMW-9S and MMW-10S

Figures 4 and 5 illustrate the changes in the chlorinated solvents concentrations demonstrating reductive dechlorination as a result of the CAP 18™ remediation implementation. To illustrate the effect of the CAP 18™ injection on dissolved chlorinated concentrations, injection dates are included on the graphs.

PCE impacts in **Source Area A** (MMW-P-03D) appear to have a decreasing trend with a PCE concentration below the detection limit. Vinyl chloride and cis-1,2-DCE concentrations demonstrated generally increasing trends after the second round of CAP 18™ injection in February 2009. These trends continued during the third quarter and have dropped off significantly during the fourth quarter 2010. The groundwater concentration trends observed at MMW-P-03D over the last two years detail the CAP 18™ supplemented progression of reductive dechlorination (indicating further breakdown of parent compounds) in **Source Area A**.

PCE and TCE impacts in the **Source Area B** (MMW-P-01, MMW-P-07, MMW-P-08 and MMW-8S) have displayed decreasing trends. Vinyl chloride and cis-1,2-DCE concentrations have decreased at MMW-8S and MMW-P-08, while cis-1,2-DCE and vinyl chloride have increased at MMW-P-01 and MMW-P-07. Analytical data at all four well locations indicate that reductive dechlorination processes appear to have slowed. PCE was detected solely at MMW-8S at a concentration slightly above IDEM RISC RDCLs (8.4 ug/L).

Monitoring well locations near **Source Area C** (MMW-1S, MMW-9S and MMW-10S) appear to indicate downgradient migration of CAP 18™ and slowing of previously inferred reductive dechlorination processes. All **Source Area C** monitoring wells show concentrations of vinyl chloride above IDEM RISC IDCLs. MMW-1S shows a concentration of PCE and MMW-8S shows a concentration of cis-1,2-DCE both exceeding IDEM RISC IDCLs. While MMW-9S and MMW-10S both indicate decreasing groundwater concentration trends for all daughter products, MMW-1S showed an increase in cis-1,2-DCE and vinyl chloride concentrations. MMW-1S shows a PCE concentration of 89.4 µg/L. The increases in cis-1,2-DCE and vinyl chloride indicate that reductive dechlorination processes are ongoing near the PCE **Source Area C** though at slower rates than previously indicated. The CAP 18™ has likely migrated downgradient of this location and, as such, accelerated reductive dechlorination is no longer being supported. MUNDELL is considering an additional CAP 18™ injection that will provide additional support to reductive dechlorination processes that have slowed or ceased in some areas immediately downgradient of **Source Area C**. The analytical results are attached in **Appendix A**.

Thus, an overall decreasing trend in PCE and TCE concentrations (in some areas below the laboratory reporting limit), and an increase in the daughter product concentrations (indicating breakdown of parent compounds via reductive dechlorination) has occurred significantly

subsequent to the injections in the **Source Areas A, B and C** in August 2007 and February 2009. Because these processes appear to have slowed over the last several quarters, additional CAP 18™ injections are under consideration.

INDOOR AIR MITIGATION SYSTEMS PERFORMANCE

Four sub-floor slab depressurization units were installed by *Air Quality Control (AQC)* under the oversight of MUNDELL in September 2006. Three additional sub-floor slab depressurization units were installed by AQC under the oversight of MUNDELL on March 19 and 26, 2008.

Unit/blowers were installed in the following spaces at Michigan Plaza: 1) the Village Pantry (B1); 2) the former Handicap Workshop Space (B2); 3) the Zacatecas (B3); and 4) the laundromat (Michigan Plaza Family Laundry) (B4). The systems installed at the Michigan Apartments are: Building No. 1, Basement Apartment 101 (B5); Building No. 6, Basement Apartment 602 (B6); and Building No. 10, Basement Apartment 1001 (B7). The system locations are illustrated on **Figure 6**.

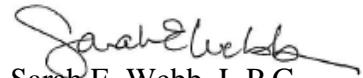
Since the time of installation, system stack air samples were collected weekly during October 2006, followed by bi-weekly sampling during November and December 2006, monthly throughout fourth quarter 2006, and then on a quarterly basis thereafter. PID readings have also been concurrently measured in each of the stacks. The historical PCE concentration trends and cumulative pounds of PCE and total contaminants removed by each of the systems (B1 through B7) are summarized in **Figures 7 through 15**.

As of the fourth quarter of 2010, approximately *13.91 pounds* of PCE and *17.09 pounds* of total chlorinated solvents have been removed at the *Michigan Apartments property* (sub slab depressurization systems **B5, B6 and B7**); and approximately *87.91 pounds* of PCE and *94.21 pounds* of total chlorinated solvents have been removed at the *Michigan Plaza property* (sub slab depressurization systems **B1, B2, B3 and B4**). The associated calculations are provided in **Appendix B**. A concentration of half the PQL (practical quantitation limit) is assumed for the indicator compounds demonstrating concentrations below the laboratory PQL with the exception of vinyl chloride where an average concentration of 0.015 PPMV (derived from the J flag values for VC concentrations below PQL) is used for calculation purposes.

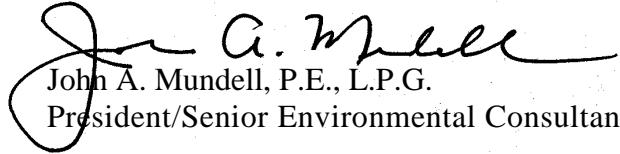
We appreciate the opportunity to update IDEM on the progress of remedial activities and monitoring at the Site. If you have any questions, please do not hesitate to contact us at (317) 630-9060 or via email (jmundell@MundellAssociates.com; swebb@MundellAssociates.com).

Sincerely,

MUNDELL & ASSOCIATES, INC.



Sarah E. Webb, L.P.G.
Project Hydrogeologist



John A. Mundell, P.E., L.P.G.
President/Senior Environmental Consultant

Attachments: Tables
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cc: Mr. Peter Cappel, AIMCO

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Appendix A. Lab Analytical Results

Appendix B. Air Mitigation Systems: Pounds of Contaminants Removed

TABLES

Table 1
Tabulated Water Level Measurements and Monitoring Well Construction Data
Quarter 4 (2010)
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date of Water Level	Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)	Depth To Water (feet)	Groundwater Elevation (feet MSL)
On-Site Monitoring Wells						
MMW-P-01	10/11/2010	714.90	28	18.00 - 28.00	19.82	695.08
MMW-P-02	10/11/2010	715.69	30	20.00 - 30.00	20.88	694.81
MMW-P-03S	10/11/2010	715.60	28	18.00 - 28.00	20.75	694.85
MMW-P-03D	10/11/2010	715.58	35	25.00 - 35.00	20.75	694.83
MMW-P-04	10/11/2010	715.49	28	18.00 - 28.00	20.65	694.84
MMW-P-05	10/11/2010	715.17	28	18.00 - 28.00	20.19	694.98
MMW-P-06	10/11/2010	715.72	28	18.00 - 28.00	20.77	694.95
MMW-P-07	10/11/2010	714.47	28	18.00 - 28.00	19.16	695.31
MMW-P-08	10/11/2010	714.14	28	18.00 - 28.00	18.60	695.54
MMW-P-10S	10/11/2010	713.94	28	18.00 - 28.00	18.58	695.36
MMW-P-10D	10/11/2010	714.05	38	28.00 - 38.00	18.74	695.31
Off-Site Monitoring Well (Olin-Cossell ROW)						
MMW-P-09S	10/11/2010	714.45	28	18.00 - 28.00	20.47	693.98
MMW-P-09D	10/11/2010	714.39	45	35.00 - 45.00	20.42	693.97
Off-Site Monitoring Wells (Environ/Keramida)						
MW-167S	10/11/2010	715.36	22	12.00 - 22.00	19.27	696.09
MW-167D	-	-	33	28.00 - 33.00	-	-
MW-168S	10/11/2010	713.90	22	12.00 - 22.00	18.54	695.36
MW-168D	10/11/2010	713.82	31	26.00 - 31.00	18.45	695.37
MW-169S	-	-	25	15.00 - 25.00	-	-
MW-169D	-	-	37	32.00 - 37.00	-	-
MW-170S	10/11/2010	716.51	27	17.00 - 27.00	21.72	694.79
MW-170D	10/11/2010	716.45	39	34.00 - 39.00	21.81	694.64
MW-171S	10/11/2010	710.94	22	12.00 - 22.00	NG	NG
MW-171D	10/11/2010	710.99	49	44.00 - 49.00	16.76	694.23
Off-Site Monitoring Wells (Michigan Meadows Apartments)						
MMW-1S	10/11/2010	712.54	20	10.00 - 20.00	16.55	695.99
MMW-2S	10/11/2010	712.59	20	10.00 - 20.00	NG	NG
MMW-3S	10/11/2010	709.76	30	18.00 - 28.00	13.09	696.67
MMW-4D	10/11/2010	710.88	66	56.00 - 66.00	14.25	696.63
MMW-5D	10/11/2010	710.85	51	36.00 - 41.00	13.98	696.87
MMW-6D	10/11/2010	711.97	51	39.00 - 49.00	15.05	696.92
MMW-7S	10/11/2010	711.64	26	12.00 - 22.00	14.66	696.98
MMW-8S	10/11/2010	713.81	24	14.00 - 24.00	17.60	696.21
MMW-9S	10/11/2010	713.25	25	15.00 - 25.00	17.79	695.46
MMW-10S	10/11/2010	713.23	25	15.00 - 25.00	16.82	696.41
MMW-11S	10/11/2010	713.69	33	14.00 - 24.00	16.73	696.96
MMW-11D	10/11/2010	713.64	33	23.00 - 33.00	16.61	697.03
MMW-12S	10/11/2010	712.82	24	14.00 - 24.00	15.83	696.99
MMW-13D	10/11/2010	712.88	50	35.00 - 50.00	16.55	696.33
MMW-14D	10/11/2010	711.77	50	40.00 - 50.00	15.62	696.15
Off-Site Monitoring Wells (Floral Park Cemetery)						
MMW-C-01	10/11/2010	715.27	28	18.00 - 28.00	20.53	694.74
MMW-C-02	10/11/2010	714.22	28	18.00 - 28.00	19.86	694.36

Notes:

1) MW-167D, MW-169S and MW-169D have undergone repairs since the third quarter 2010 water level gauging event. No new TOC data is available at this time.

2) The Top of Casing (TOC) elevation for each Mundell monitoring well was determined using a temporary benchmark elevation of 714.22 feet MSL, as established in the 2009 survey event conducted by the S.E.A. Group. Keramida/Environ monitoring well TOCs were inferred using relative elevation differences established prior to the Mundell 2009 survey event.

3) Unified U.S. EPA Elevation Survey data may be utilized in forthcoming reports.

4) NG = Not Gauged

Table 2
Monitoring Well Groundwater Analytical Results
Quarter 4 (2010)
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Apts)							
MMW-1S	10/12/2010	89.4	21.3	208	<5.0	<5.0	32.2
MMW-8S	10/12/2010	8.4	<5.0	5.4	<5.0	<5.0	158
MMW-9S	10/12/2010	<50.0	<50.0	2,430	<50.0	<50.0	1,270
MMW-10S	10/12/2010	<5.0	<5.0	100	<5.0	<5.0	96.1
MMW-11S	10/12/2010	<5.0	<5.0	85.1	5.6	<5.0	<2.0
MMW-11D	10/12/2010	<5.0	<5.0	162	<5.0	<5.0	<2.0
MMW-12S	10/12/2010	<5.0	<5.0	16.8	<5.0	<5.0	<2.0
MMW-13D	10/12/2010	<5.0	<5.0	1,200	<5.0	<5.0	187
MMW-14D	10/12/2010	<5.0	<5.0	775	8.4	<5.0	83.3
Monitoring Wells (Plaza)							
MMW-P-01	10/14/2010	<125	<125	4,760	<125	<125	5,440
MMW-P-02	10/13/2010	9.3	<5.0	61.0	<5.0	<5.0	95.0
MMW-P-03S	10/13/2010	<5.0	<5.0	70.9	9.2	<5.0	542
MMW-P-03D	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.2
MMW-P-04	10/13/2010	<5.0	<5.0	10.3	<5.0	<5.0	16.8
MMW-P-05	10/13/2010	<5.0	<5.0	13.6	<5.0	<5.0	3.9
MMW-P-06	10/14/2010	<100	<100	<100	<100	<100	12,900
MMW-P-07	10/14/2010	<25.0	<25.0	665	<25.0	<25.0	2,310
MMW-P-08	10/14/2010	<25.0	<25.0	39.5	<25.0	<25.0	676
MMW-P-09S	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-09D	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	70.6
MMW-P-10S	10/14/2010	<5.0	<5.0	5.4	<5.0	<5.0	381
MMW-P-10D	10/14/2010	<25.0	<25.0	<25.0	<25.0	<25.0	707
Keramida/Environ Monitoring Wells (Off-Site)							
MW-168D	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	134
Floral Park Cemetery Monitoring Wells (Off-Site)							
MMW-C-01	10/14/2010	<5.0	<5.0	69.1	<5.0	<5.0	1,100
MMW-C-02	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEML RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEML RISC Default Residential Cleanup Level		5	5	70	100	80	2

Note:

All Values Over IDEML RISC Industrial Default Cleanup Level in **RED**

All Values Over IDEML RISC Residential Default Cleanup Level in **BLUE**

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

ug/L = micrograms per liter

NS = Not Sampled

All analytical results presented in micrograms per liter (ug/L).

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Apts)							
MMW-1S	9/10/2004	<5.0	<5.0	<5.0	<5.0	<5.0	4.1
	3/15/2005	150	10.0	<5.0	<5.0	<5.0	<2.0
	11/9/2005	130	8.3	<5.0	<5.0	<5.0	8.9
	9/5/2006	200	13.0	<5.0	<5.0	<5.0	4.6
	2/22/2007	220	14.9	<5.0	<5.0	<5.0	<2.0
	6/14/2007	240	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	362	10.5	<5.0	<5.0	31.6	<2.0
	12/13/2007	330	8.1	<5.0	<5.0	27.0	<2.0
	3/21/2008	280	14.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	277	13.2	<5.0	<5.0	<5.0	<2.0
	9/11/2008	288	14.7	<5.0	<5.0	<5.0	<2.0
	11/20/2008	223	45.5	169	<5.0	<5.0	14.5
	3/16/2009	199	11.3	<5.0	<5.0	<5.0	<2.0
	6/16/2009	237	13.4	<5.0	<5.0	<5.0	<2.0
	8/5/2009	195	22.9	71.3	<5.0	<5.0	9.3
	11/2/2009	189	39.0	119	<5.0	<5.0	26.6
	2/3/2010	160	49.7	59.1	<5.0	<5.0	35.4
	4/22/2010	206	14.7	<5.0	<5.0	<5.0	<2.0
	7/21/2010	310	21.8	<5.0	<5.0	<5.0	<2.0
	10/12/2010	89.4	21.3	208	<5.0	<5.0	32.2
MMW-2S	9/10/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	9/5/2006	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-3S	8/26/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	5.2	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	28.0	5.4	<5.0	<5.0	<2.0
	9/5/2006	<5.0	23.0	7.4	<5.0	<5.0	<2.0
	6/2/2008	<5.0	20.2	7.9	<5.0	<5.0	2.8
	6/15/2009	<5.0	15.3	11.7	<5.0	<5.0	3.0
	4/20/2010	<5.0	15.9	8.0	<5.0	<5.0	<2.0
MMW-4D	8/25/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	980	<5.0	<5.0	200
	11/10/2005	<5.0	<5.0	850	<5.0	<5.0	240
	9/5/2006	<5.0	<5.0	1,100	<5.0	<5.0	220
	6/2/2008	<5.0	<5.0	515	<5.0	<5.0	32.2
	6/15/2009	<5.0	<5.0	892	7.0	<5.0	142
	4/20/2010	<5.0	<5.0	719	<5.0	<5.0	237
MMW-5D	8/24/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	3,400	13.0	<5.0	270
	11/10/2005	<5.0	<5.0	3,900	19.0	<5.0	140
	9/5/2006	<50	<50	2,500	<50	<5.0	170
	6/2/2008	<5.0	<5.0	1,360	19.9	<5.0	207
	6/15/2009	<5.0	<5.0	1,110	14.5	<5.0	242
	4/20/2010	<5.0	<5.0	943	<5.0	<5.0	204
MMW-6D	9/10/2004	<5.0	<5.0	540	<5.0	<5.0	400
	11/10/2005	<5.0	<5.0	750	<5.0	<5.0	700
	9/5/2006	<5.0	<5.0	300	<5.0	<5.0	440
	6/2/2008	<5.0	<5.0	65.5	<5.0	<5.0	242
	6/15/2009	<5.0	<5.0	8.6	<5.0	<5.0	111
	4/20/2010	<5.0	<5.0	8.2	<5.0	<5.0	63.6
IDEML RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEML RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2

Notes:

All Values Over IDEML RISC Default Industrial Cleanup Level in **RED**

All Values Over IDEML RISC Default Residential Cleanup Level in **BLUE**

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

All analytical results presented in micrograms per liter (ug/L).

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-7S	8/24/2004	<5.0	<5.0	28.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	8.5	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	9.5	<5.0	<5.0	<2.0
	9/5/2006	<5.0	<5.0	5.8	<5.0	<5.0	4.5
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-8S	2/22/2007	114	<5.0	289	13.8	<5.0	40.6
	6/14/2007	15.9	<5.0	364	9.5	<5.0	82.1
	9/19/2007	<5.0	<5.0	778	24.6	<5.0	145
	12/13/2007	7.7	<5.0	1,000	7.4	<5.0	586
	3/20/2008	<5.0	<5.0	470	<5.0	<5.0	330
	6/6/2008	<5.0	<5.0	336	<5.0	<5.0	509
	9/10/2008	<5.0	<5.0	275	<5.0	<5.0	322
	11/20/2008	<5.0	<5.0	123	<5.0	<5.0	584
	3/16/2009	<5.0	<5.0	95.0	<5.0	<5.0	348
	6/16/2009	<5.0	<5.0	94.3	6.1	<5.0	280
	8/5/2009	<5.0	<5.0	83.8	<5.0	<5.0	261
	11/2/2009	<5.0	<5.0	58.3	<5.0	<5.0	277
	2/3/2010	7.9	<5.0	15.3	<5.0	<5.0	236
	4/22/2010	<5.0	<5.0	9.0	<5.0	<5.0	151
	7/21/2010	6.2	<5.0	14.9	<5.0	5.0	230
	10/12/2010	8.4	<5.0	5.4	<5.0	<5.0	158
MMW-9S	2/22/2007	782	88.6	78.9	<5.0	<5.0	<2.0
	6/14/2007	858	85.7	65.3	<5.0	<5.0	<2.0
	9/20/2007	1,430	112	70.3	8.2	<5.0	<2.0
	12/12/2007	<50.0	<50.0	1,700	<50.0	<50.0	<20.0
	3/21/2008	57.0	20.0	2,900	39.0	<5.0	16.0
	6/6/2008	52.9	28.0	1,540	38.2	<5.0	295
	9/10/2008	52.6	22.7	4,920	94.5	<5.0	167
	11/20/2008	<5.0	<5.0	5,820	90.2	<5.0	1,010
	3/16/2009	<50.0	<50.0	7,490	73.8	<50.0	1,800
	6/16/2009	44.5	24.9	4,810	64.0	<5.0	876
	8/5/2009	<5.0	<5.0	5,010	64.2	<5.0	1,110
	11/2/2009	<5.0	<5.0	5,410	120	<5.0	1,050
	2/3/2010	<50.0	<50.0	5,090	98.4	<50.0	1,700
	4/22/2010	<5.0	<5.0	4,300	77.1	<5.0	1,710
	7/21/2010	<50.0	<50.0	2,910	73.2	<50.0	2,020
MMW-10S	10/12/2010	<50.0	<50.0	2,430	<50.0	<50.0	1,270
	2/22/2007	49.6	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	77.6	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	66.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	124	56.0	149	<5.0	<5.0	<2.0
	3/21/2008	440	12.0	8.1	<5.0	<5.0	12.0
	6/6/2008	541	62.1	218	<5.0	<5.0	30.4
	9/10/2008	6.9	<5.0	353	8.2	<5.0	<2.0
	11/20/2008	<5.0	<5.0	212	<5.0	<5.0	15.9
	3/16/2009	<5.0	<5.0	302	<5.0	<5.0	114
	6/16/2009	22.8	15.4	415	12.0	<5.0	81.4
	8/5/2009	<5.0	<5.0	224	5.5	<5.0	156
	11/2/2009	12.8	10.1	239	5.6	<5.0	119
	2/3/2010	8.3	7.5	180	5.1	<5.0	148
	4/22/2010	<5.0	7.9	165	<5.0	<5.0	143
MMW-11S	7/21/2010	15.6	9.7	267	8.3	<5.0	239
	10/12/2010	<5.0	<5.0	100	<5.0	<5.0	96.1
	6/14/2007	<5.0	<5.0	225	6.8	<5.0	18.6
	9/19/2007	<5.0	<5.0	442	21.1	<5.0	30.1
	12/13/2007	7.2	<5.0	920	27.0	<5.0	49.0
	3/20/2008	<5.0	<5.0	420	17.0	<5.0	4.9
	6/5/2008	<5.0	<5.0	623	23.1	<5.0	26.7
	9/10/2008	<5.0	<5.0	327	18.3	<5.0	9.9
	11/20/2008	<5.0	<5.0	554	23.9	<5.0	18.5
	3/16/2009	<5.0	<5.0	37.6	<5.0	<5.0	<2.0
IDEM RISC Industrial Default Cleanup Level - 2006	6/16/2009	<5.0	<5.0	253	17.9	<5.0	2.8
	8/5/2009	<5.0	<5.0	80.7	5.5	<5.0	3.1
	11/2/2009	<5.0	<5.0	59.9	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	29.4	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	17.7	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	120	7.4	<5.0	4.3
	10/12/2010	<5.0	<5.0	85.1	5.6	<5.0	<2.0
	IDEM RISC Industrial Default Cleanup Level - 2006	55	31	1,000	2,000	1,000	4
	IDEM RISC Residential Default Cleanup Level - 2006	5	5	70	100	80	2

Notes:

All Values Over IDEM RISC Default Industrial Cleanup Level in RED

All Values Over IDEM RISC Default Residential Cleanup Level in BLUE

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

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"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

All analytical results presented in micrograms per liter (ug/L).

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-11D	6/16/2009	<5.0	<5.0	25.3	6.7	<5.0	<2.0
	8/5/2009	<5.0	<5.0	485	22.6	<5.0	15.3
	11/2/2009	<5.0	<5.0	771	31.8	<5.0	18.8
	2/3/2010	<5.0	<5.0	301	28.2	<5.0	5.2
	4/22/2010	<5.0	<5.0	307	21.8	<5.0	2.6
	7/21/2010	<5.0	<5.0	396	21.8	<5.0	10.9
	10/12/2010	<5.0	<5.0	162	<5.0	<5.0	<2.0
MMW-12S	6/16/2009	<5.0	<5.0	9.7	<5.0	<5.0	6.5
	8/5/2009	<5.0	<5.0	47.3	<5.0	<5.0	15.2
	11/2/2009	<5.0	<5.0	28.8	<5.0	<5.0	7.1
	2/3/2010	<5.0	<5.0	11.4	<5.0	<5.0	2.1
	4/20/2010	<5.0	<5.0	5.3	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	25.4	<5.0	<5.0	7.3
	10/12/2010	<5.0	<5.0	16.8	<5.0	<5.0	<2.0
MMW-13D	8/5/2009	<5.0	<5.0	672	<5.0	<5.0	59.2
	11/2/2009	<5.0	<5.0	949	<5.0	<5.0	182
	2/3/2010	<5.0	<5.0	819	6.20	<5.0	260
	4/22/2010	<5.0	<5.0	469	<5.0	<5.0	4.6
	7/21/2010	<5.0	<5.0	432	<5.0	<5.0	16.6
	10/12/2010	<5.0	<5.0	1,200	<5.0	<5.0	187
MMW-13D Low	6/16/2009	<5.0	<5.0	613	10.4	<5.0	17.3
MMW-13D Medium (29')	6/16/2009	<5.0	<5.0	578	12.1	<5.0	14.9
MMW-13D High (17')	6/16/2009	<5.0	<5.0	597	9.7	<5.0	21.1
MMW-14D	6/16/2009	<5.0	<5.0	648	15.6	<5.0	57.6
	8/5/2009	<5.0	<5.0	589	10.9	<5.0	79.1
	11/2/2009	<5.0	<5.0	541	9.2	<5.0	83.8
	2/3/2010	<5.0	<5.0	871	13.9	<5.0	84.9
	4/20/2010	<5.0	<5.0	763	14.1	<5.0	72.8
	7/21/2010	<5.0	<5.0	805	14.6	<5.0	60.8
	10/12/2010	<5.0	<5.0	775	8.4	<5.0	83.3
Monitoring Wells (Plaza)							
MMW-P-01	11/9/2005	33	210	160	9.6	<5.0	76.0
	2/22/2007	85.2	356	274	16.7	<5.0	28.7
	6/14/2007	111	368	350	10.0	<5.0	79.6
	9/20/2007	206	322	300	11.5	<5.0	127
	12/14/2007	230	320	240	7.1	<5.0	87.0
	3/21/2008	120	170	3,100	25.0	<5.0	42.0
	6/5/2008	22.0	31.5	3,660	68.6	<5.0	123
	9/11/2008	14.2	15.1	1,690	<5.0	<5.0	87.7
	11/19/2008	<5.0	<5.0	4,320	<5.0	<5.0	116
	3/17/2009	17.5	22.6	12,300	143	<5.0	3,290
	6/17/2009	<50.0	<50.0	4,020	63.9	<50.0	1,840
	8/6/2009	97.4	<50.0	12,200	<50.0	<50.0	3,730
	11/3/2009	103	58.3	9,330	<50.0	<50.0	4,770
	2/4/2010	104	60.6	9,190	130	<50.0	13,600
	4/22/2010	90.5	79.0	9,400	94.7	<50.0	12,600
MMW-P-02	7/7/2010	<50.0	<50.0	1,880	<50.0	<50.0	2,960
	10/14/2010	<125	<125	4,760	<125	<125	5,440
	11/8/2005	24.0	<5.0	87.0	7.3	<5.0	49.0
	2/22/2007	184	<5.0	39.4	<5.0	<5.0	27.4
	6/14/2007	17.1	<5.0	35.0	<5.0	<5.0	27.5
	9/19/2007	13.3	<5.0	66.3	5.6	<5.0	50.1
	12/13/2007	7.8	<5.0	69.0	<5.0	<5.0	53.0
	3/20/2008	19.0	<5.0	67.0	<5.0	<5.0	42.0
	6/5/2008	94.9	<5.0	44.0	<5.0	<5.0	46.4
	9/11/2008	17.5	<5.0	46.6	<5.0	<5.0	42.0
	11/19/2008	10.7	<5.0	75.4	<5.0	<5.0	69.5
	3/17/2009	23.4	<5.0	65.4	5.3	<5.0	68.4
IDEM RISC Industrial Default Cleanup Level - 2006	6/17/2009	5.1	<5.0	54.2	9.2	<5.0	80.6
	8/6/2009	5.1	<5.0	55.8	<5.0	<5.0	56.2
	11/3/2009	11.1	<5.0	60.1	<5.0	<5.0	73.9
	2/4/2010	7.4	<5.0	75.8	5.8	<5.0	104
	4/22/2010	9.9	6.8	56.0	8.0	<5.0	110
	7/21/2010	24	<5.0	72.4	<5.0	<5.0	161
	10/13/2010	9.3	<5.0	61.0	<5.0	<5.0	95.0
	IDEML RISC Industrial Default Cleanup Level - 2006	55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2

Notes:

All Values Over IDEM RISC Default Industrial Cleanup Level in RED

All Values Over IDEM RISC Default Residential Cleanup Level in BLUE

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

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All analytical results presented in micrograms per liter (ug/L).

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Cumulative Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-P-03S	11/9/2005	110	<5.0	97.0	9.6	<5.0	<2.0
	2/22/2007	397	<5.0	105	10.0	<5.0	<2.0
	6/14/2007	256	<5.0	96.4	9.2	<5.0	9.3
	9/20/2007	144	<5.0	131	15.8	<5.0	16.0
	12/13/2007	67.0	<5.0	88.0	5.3	<5.0	15.0
	3/20/2008	130	<5.0	84.0	7.3	<5.0	10.0
	6/5/2008	19.4	<5.0	380	14.9	<5.0	10.6
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	6.0	494	<5.0	<5.0	40.8
	3/17/2009	7.5	<5.0	904	38.7	<5.0	283
	6/17/2009	<5.0	<5.0	332	22.3	<5.0	759
	8/6/2009	30.6	8.2	573	25.0	<5.0	843
	11/3/2009	<5.0	<5.0	141	16.1	<5.0	379
	2/4/2010	<5.0	<5.0	155	19.4	<5.0	382
	4/22/2010	14.2	8.9	156	13.4	<5.0	377
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	141
	10/13/2010	<5.0	<5.0	70.9	9.2	<5.0	542
MMW-P-03D	11/9/2005	22.0	<5.0	42.0	<5.0	<5.0	2.0
	2/22/2007	48.9	<5.0	57.8	<5.0	39.0	15.6
	6/14/2007	21.7	<5.0	74.9	<5.0	<5.0	34.5
	9/19/2007	14.3	<5.0	76.1	7.3	<5.0	36.6
	12/13/2007	11.0	<5.0	40.0	<5.0	<5.0	20.0
	3/20/2008	<5.0	<5.0	170	6.0	<5.0	18.0
	6/5/2008	<5.0	<5.0	150	7.4	<5.0	26.0
	9/11/2008	<5.0	<5.0	95.7	6.4	<5.0	<2.0
	11/19/2008	<5.0	<5.0	80.6	<5.0	<5.0	36.9
	3/17/2009	<5.0	<5.0	65.2	<5.0	<5.0	69.8
	6/17/2009	<5.0	<5.0	14.9	5.9	<5.0	137
	8/6/2009	<5.0	<5.0	16.7	<5.0	<5.0	248
	11/3/2009	<5.0	<5.0	8.5	<5.0	<5.0	168
	2/4/2010	<5.0	<5.0	<5.0	<5.0	<5.0	287
	4/22/2010	<5.0	<5.0	7.2	<5.0	<5.0	211
	7/21/2010	6.6	<5.0	271	8.1	<5.0	305
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.2
MMW-P-04	11/9/2005	180	<5.0	<5.0	<5.0	<5.0	<2.0
	2/22/2007	315	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	268	<5.0	<5.0	<5.0	<5.0	<2.0
	9/20/2007	214	<5.0	<5.0	<5.0	<5.0	<2.0
	12/13/2007	62.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	120	<5.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	154	6.0	59.7	<5.0	<5.0	<2.0
	9/11/2008	31.9	<5.0	360	7.1	<5.0	<2.0
	11/19/2008	45.0	<5.0	248	<5.0	<5.0	<2.0
	3/18/2009	19.4	5.4	304	10.8	<5.0	<2.0
	6/17/2009	35.3	5.4	827	22.0	<5.0	2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/5/2009	<5.0	<5.0	1,190	36.9	<5.0	90.9
	2/12/2010	<5.0	<5.0	144	8.3	<5.0	224
	4/21/2010	<5.0	<5.0	268	15.8	<5.0	364
	7/22/2010	<5.0	<5.0	189	12.9	<5.0	402
	10/13/2010	<5.0	<5.0	10.3	<5.0	<5.0	16.8
MMW-P-05	11/8/2005	<5.0	<5.0	6.2	<5.0	<5.0	<2.0
	2/22/2007	23.7	<5.0	9.1	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	12/14/2007	<5.0	<5.0	14.8	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	8.1	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	15.6	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	16.7	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	22.1	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	13.7	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	10.9	6.6	<5.0	<2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	7.6	<5.0	<5.0	2.7
	2/4/2010	<5.0	<5.0	6.8	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	8.6	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	10.4	<5.0	<5.0	5.3
	10/13/2010	<5.0	<5.0	13.6	<5.0	<5.0	3.9
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2

Notes:

All Values Over IDEM RISC Default Industrial Cleanup Level in **RED**

All Values Over IDEM RISC Default Residential Cleanup Level in **BLUE**

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

All analytical results presented in micrograms per liter (ug/L).

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-P-06	11/8/2005	<5.0	<5.0	200	24.0	<5.0	21.0
	2/22/2007	<5.0	<5.0	158	19.2	<5.0	<2.0
	6/14/2007	<5.0	<5.0	214	22.7	<5.0	13.3
	9/19/2007	<5.0	<5.0	283	38.2	<5.0	26.1
	12/14/2007	<5.0	<5.0	260	40.0	<5.0	31.0
	3/20/2008	<5.0	<5.0	250	31.0	<5.0	26.0
	6/5/2008	<5.0	<5.0	265	30.9	<5.0	40.1
	9/11/2008	<5.0	<5.0	271	33.3	<5.0	<2.0
	11/19/2008	<5.0	<5.0	292	<5.0	<5.0	61.4
	3/17/2009	<5.0	<5.0	292	35.3	<5.0	<2.0
	6/17/2009	<5.0	<5.0	145	22.2	<5.0	90.6
	8/6/2009	<5.0	<5.0	136	14.3	<5.0	301
	11/3/2009	<5.0	<5.0	107	15.2	<5.0	292
	2/4/2010	<5.0	<5.0	79.1	11.2	<5.0	1,870
	4/22/2010	<5.0	<5.0	23.7	8.0	<5.0	2,470
	7/21/2010	<50.0	<50.0	<50.0	<50.0	<50.0	5,870
	10/14/2010	<100	<100	<100	<100	<100	12,900
MMW-P-07	2/22/2007	3,060	81.5	82.0	8.8	<5.0	<2.0
	6/14/2007	2,850	90.0	82.5	<50.0	<50.0	<20.0
	9/20/2007	5,200	109	121	16.1	<5.0	2.0
	12/13/2007	1,440	157	930	8.8	7.4	80.0
	3/21/2008	31	7.6	1,700	27.0	<5.0	110
	6/5/2008	<5.0	<5.0	938	15.6	<5.0	466
	9/11/2008	<5.0	<5.0	1,870	55.2	<5.0	1,620
	11/19/2008	<5.0	<5.0	797	<5.0	<5.0	749
	3/17/2009	<5.0	<5.0	361	17.7	<5.0	1,830
	6/17/2009	<5.0	<5.0	87.1	9.4	<5.0	1,130
	8/6/2009	<5.0	<5.0	48.7	<5.0	<5.0	787
	11/3/2009	<5.0	<5.0	809	14.1	<5.0	1,510
	2/4/2010	<5.0	<5.0	555	12.4	<5.0	1,880
	4/22/2010	<5.0	7.0	1,050	23.7	<5.0	2,080
	7/22/2010	<5.0	<5.0	247	7.8	<5.0	1,680
	10/14/2010	<25.0	<25.0	665	<25.0	<25.0	2,310
MMW-P-08	2/22/2007	6,280	281	240	26.7	<5.0	<2.0
	6/14/2007	6,440	310	169	<50.0	<50.0	<20.0
	9/20/2007	9,780	494	201	25.3	<5.0	6.5
	12/14/2007	390	210	5,800	<50.0	<50.0	<20.0
	3/21/2008	6.7	11.0	6,500	130	<5.0	55.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	562
	9/11/2008	5.8	5.0	18,300	686	<50.0	4,740
	11/19/2008	<50.0	<50.0	5,690	91.4	<50.0	13,000
	3/17/2009	<5.0	<5.0	1,130	47.1	<5.0	5,680
	6/17/2009	<125	<125	356	145	<5.0	7,200
	8/6/2009	<125	<125	601	<50.0	<50.0	8,960
	11/3/2009	<50.0	<50.0	86.7	<50.0	<50.0	2,860
	2/4/2010	<50.0	<50.0	1,140	<50.0	<50.0	4,860
	4/22/2010	<5.0	<5.0	45.7	8.1	<5.0	2,180
	7/22/2010	<5.0	<5.0	97.8	<5.0	<5.0	1,320
	10/14/2010	<25.0	<25.0	39.5	<25.0	<25.0	676
MMW-P-09S	2/22/2007	10.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2

Notes:

All Values Over IDEM RISC Default Industrial Cleanup Level in RED

All Values Over IDEM RISC Default Residential Cleanup Level in BLUE

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

All analytical results presented in micrograms per liter (ug/L).

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-P-09D	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	46.2
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	83.1
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	71.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	100
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	97.2
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	85.1
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	73.5
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	80.8
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	87.1
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	111
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	76.9
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	81.2
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	70.6
MMW-P-10S	6/14/2007	36.1	36.3	61.6	6.9	<5.0	<2.0
	7/6/2007	87.9	54.9	92.1	10.2	<5.0	<2.0
	9/19/2007	192	82.6	126	14.4	<5.0	<2.0
	12/14/2007	71.0	<5.0	<5.0	<5.0	<5.0	2.4
	3/20/2008	26.8	19.2	250	12.2	<5.0	<2.0
	6/5/2008	15.0	9.7	537	16.0	<5.0	114
	9/11/2008	74.8	36.5	1,650	74.0	<5.0	27.7
	11/19/2008	78.6	28.0	1,510	<5.0	<5.0	22.3
	3/17/2009	11.9	8.6	1,160	71.5	<5.0	<2.0
	6/17/2009	<5.0	<5.0	331	20.5	<5.0	63.9
	8/6/2009	<5.0	<5.0	158	16.1	<5.0	395
	11/3/2009	<5.0	<5.0	29.6	<5.0	<5.0	288
	2/4/2010	<5.0	<5.0	45.4	<5.0	<5.0	419
	4/22/2010	<5.0	<5.0	16.2	<5.0	<5.0	118
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.5
	10/14/2010	<5.0	<5.0	5.4	<5.0	<5.0	381
MMW-P-10D	6/14/2007	<5.0	10.6	481	7.7	<5.0	98.7
	7/6/2007	<5.0	<5.0	498	9.0	<5.0	118
	9/19/2007	<5.0	<5.0	350	<5.0	<5.0	76.1
	12/14/2007	<5.0	<5.0	270	<5.0	<5.0	77.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/5/2008	<5.0	<5.0	508	<5.0	<5.0	267
	9/11/2008	<5.0	<5.0	435	<5.0	<5.0	288
	11/19/2008	<5.0	<5.0	3,390	<5.0	<5.0	5,030
	3/17/2009	<5.0	<5.0	4,860	12.9	<5.0	2,500
	6/17/2009	<5.0	<5.0	3,710	9.6	<5.0	9,070
	8/6/2009	<5.0	<5.0	2,520	5.1	<5.0	3,400
	11/3/2009	<5.0	<5.0	2,740	<5.0	<5.0	3,500
	2/4/2010	<5.0	<5.0	406	<5.0	<5.0	2,130
	4/22/2010	<5.0	<5.0	30.5	<5.0	<5.0	364
	7/22/2010	<5.0	<5.0	120	<5.0	<5.0	865
	10/14/2010	<25.0	<25.0	<25.0	<25.0	<25.0	707
Keramida/Environ Monitoring Wells (Off-site)							
MW-165D	7/7/2010	<5.0	<5.0	122	<5.0	<5.0	202
MW-167S	11/7/2005	<5.0	<5.0	<5.0	<5.0	<5.0	14.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW167D	11/7/2005	<5.0	<5.0	750	<5.0		110
	6/5/2008	<5.0	<5.0	616	28.0	<5.0	43.8
	6/17/2009	<5.0	<5.0	612	22.1	<5.0	23.8
	4/21/2010	<5.0	<5.0	626	22.1	<5.0	25.6
MW-168S	11/7/2005	280	16.0	53.0	<5.0	<5.0	3.0
	2/21/2007	30.1	8.8	155	<5.0	<5.0	29.6
	6/14/2007	<5.0	<5.0	40.8	<5.0	<5.0	34.0
	9/19/2007	32.6	8.0	82.4	<5.0	<5.0	3.5
	12/13/2007	52.0	14.0	78.0	<5.0	<5.0	4.1
	3/20/2008	92.0	12.0	46.0	<5.0	<5.0	4.2
	6/5/2008	80.4	10.1	41.1	<5.0	<5.0	3.6
	9/11/2008	68.5	10.8	66.9	<5.0	<5.0	5.5
	8/7/2009	62.6	10.2	118	<5.0	NS	9.9
	4/21/2010	14.0	7.0	21.9	<5.0	<5.0	<2.0
IDEML RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEML RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2

Notes:

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All Values Over IDEML RISC Default Residential Cleanup Level in BLUE

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

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Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-168D	11/7/2005	<5.0	<5.0	6.8	<5.0	<5.0	49.0
	2/21/2007	<5.0	<5.0	8.4	<5.0	<5.0	58.1
	6/14/2007	<5.0	<5.0	5.2	<5.0	<5.0	47.5
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	89.7
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	74.0
	3/20/2008	<5.0	<5.0	8.0	<5.0	<5.0	39.0
	6/5/2008	<5.0	<5.0	13.4	<5.0	<5.0	65.9
	9/11/2008	<5.0	<5.0	5.5	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	16.5	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	14.5
	8/7/2009	<5.0	<5.0	<5.0	<5.0	<5.0	36.2
	11/4/2009	<5.0	<5.0	<5.0	<5.0	<5.0	99.1
	2/4/2010	<5.0	<5.0	6.3	<5.0	<5.0	128
	4/21/2010	<5.0	<5.0	13.2	<5.0	<5.0	134
	7/22/2010	<5.0	<5.0	6.0	<5.0	<5.0	122
MW-169S	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	134
	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-169D	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	5.1
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	14.3
MW-170S	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.1
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	5.5
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-170D	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	230
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	174
MW-171S	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	161
	7/7/2010	<5.0	<5.0	<5.0	<5.0	<5.0	233
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-171D	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	2.2
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.3
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Floral Park Cemetery Wells (Off-site)							
MMW-C-01	11/20/2008	15.7	8.3	296	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	508	7.3	<5.0	<2.0
	6/18/2009	23.2	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	84.8	<5.0	66.9	<5.0	<5.0	35.2
	11/3/2009	12.6	<5.0	211	8.9	<5.0	2,720
	2/3/2010	<5.0	<5.0	176	10.1	<5.0	1,790
	4/21/2010	15.3	<5.0	165	7.1	<5.0	1,660
	7/22/2010	40.9	<5.0	22.4	<5.0	<5.0	8.1
	10/14/2010	<5.0	<5.0	69.1	<5.0	<5.0	1,100
MMW-C-02	11/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2

Notes:

All Values Over IDEM RISC Default Industrial Cleanup Level in **RED**

All Values Over IDEM RISC Default Residential Cleanup Level in **BLUE**

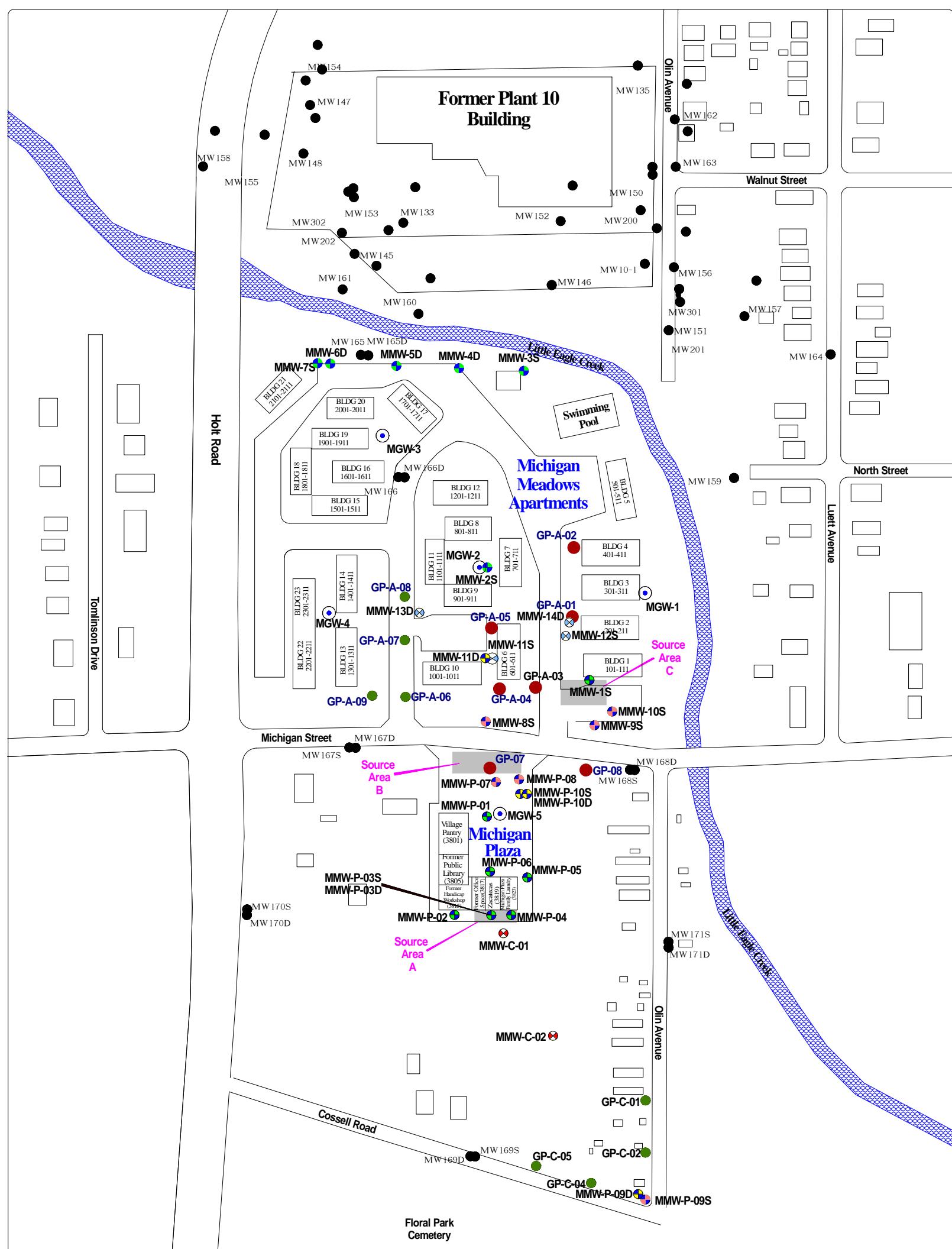
PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations.

All analytical results presented in micrograms per liter ($\mu\text{g/L}$).

FIGURES

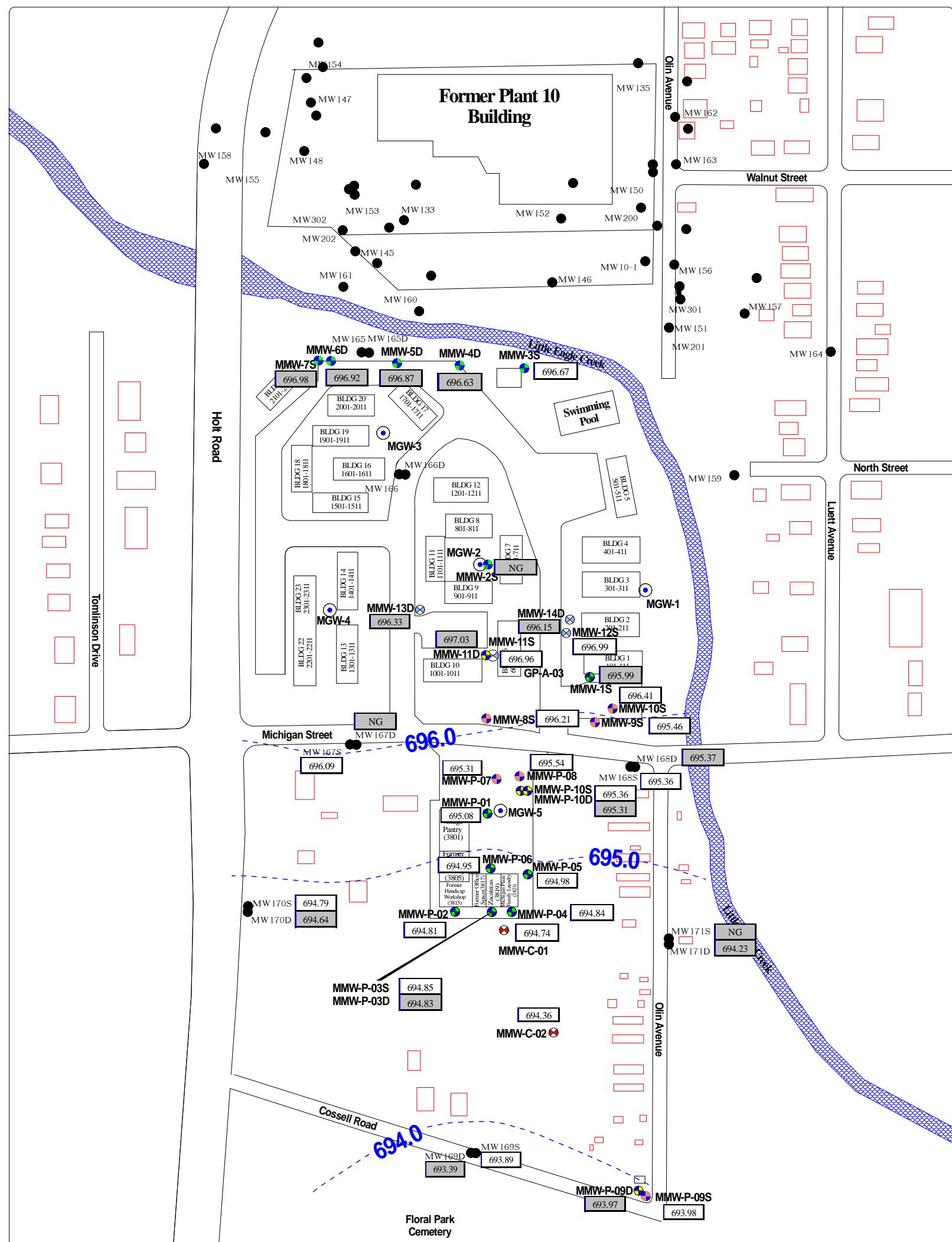


LEGEND

- Fence
- MW 160 ● Keramida/Environ Monitoring Wells
- MMW-P-06 ● MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
- MMW-P-07 ● MUNDELL Monitoring Wells (January 2007)
- MMW-P-09D ● MUNDELL Monitoring Wells (May-June 2007)
- MMW-C-01 ● MUNDELL Monitoring Wells (July/August 2008)
- MMW-11S ○ MUNDELL Monitoring Wells (November/December 2008)
- GP-C-05 ● MUNDELL Soil Boring Locations (January 2007)
- GP-07 ● MUNDELL Soil Boring Locations (September 2005)
- MGW-1 ○ MUNDELL Soil Gas Well

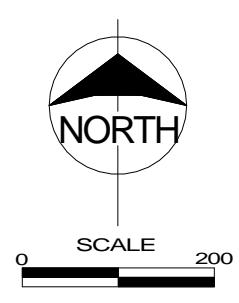


SCALE
0 200
feet
Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002

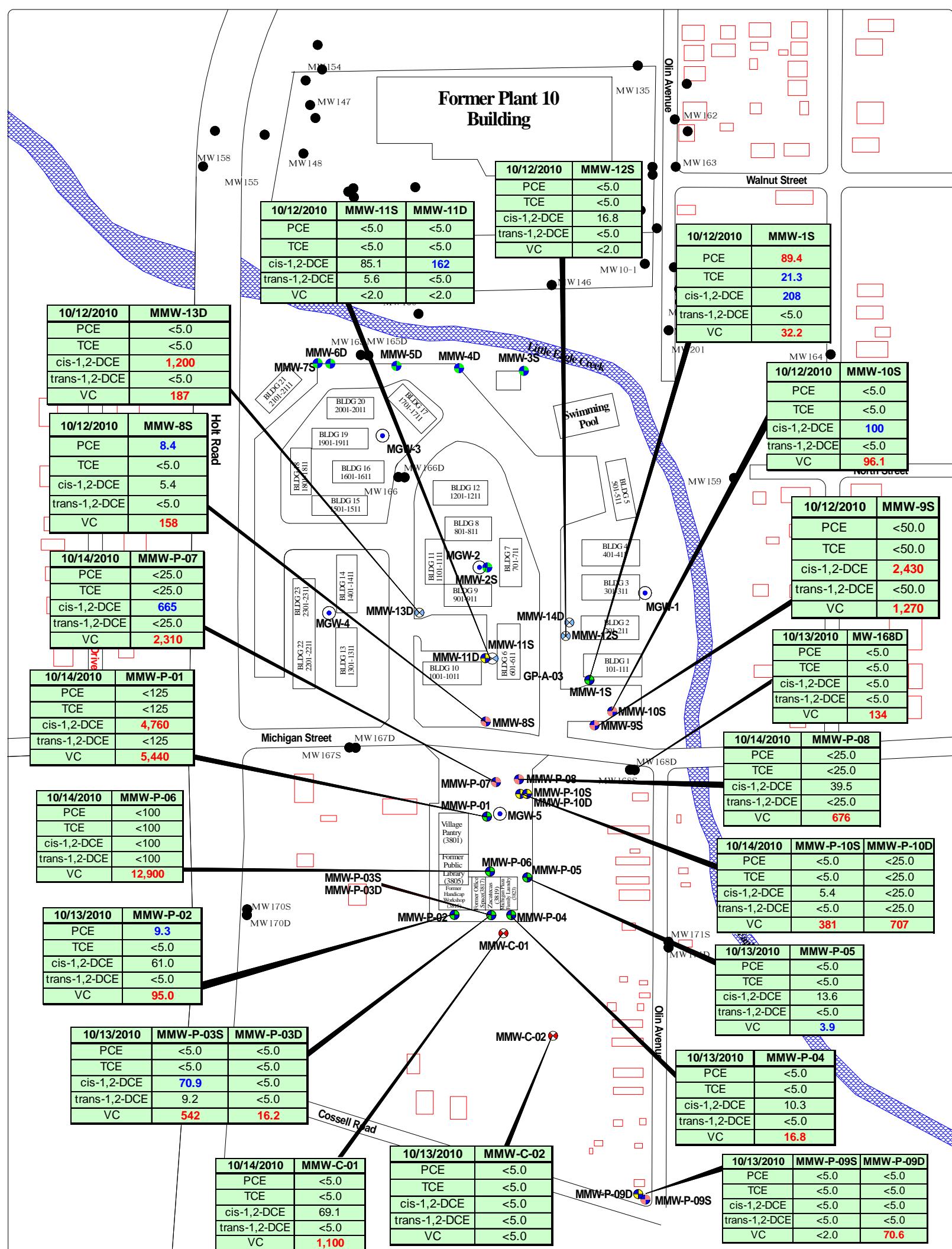


Water Level as Measured on October 11, 2010
(gray boxes indicate groundwater elevation values
not used for the creation of the Shallow
Potentiometric Surface Map)

NG - Not Gauged
Potentiometric Surface Equipotential Lines



Keramida Monitoring Well Locations Referenced
from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002



LEGEND

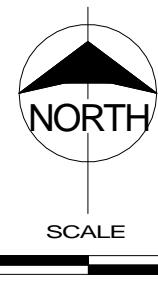
- Fence
- MW 160 ● Keramida/Environ Monitoring Wells
- MMW-P-06 ● MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
- MMW-P-07 ● MUNDELL Monitoring Wells (January 2007)
- MMW-P-09D ● MUNDELL Monitoring Wells (May-June 2007)
- MMW-C-01 ● MUNDELL Monitoring Wells (July/August 2008)
- MMW-11S ● MUNDELL Monitoring Wells (November/December 2008)
- MGW-1 ● MUNDELL Soil Gas Well

10/14/2010	MMW-C-01
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	69.1
trans-1,2-DCE	<5.0
VC	1,100

All Values Over IDEM RISC Default Industrial Cleanup Level in RED
All Values Over IDEM RISC Default Residential Cleanup Level in BLUE
PCE = Tetrachloroethene;
TCE = Trichloroethene;
cis-1,2-DCE = cis-1,2-Dichloroethene;
trans-1,2-DCE = trans-1,2-Dichloroethene
VC = Vinyl Chloride
NS = Not Sampled

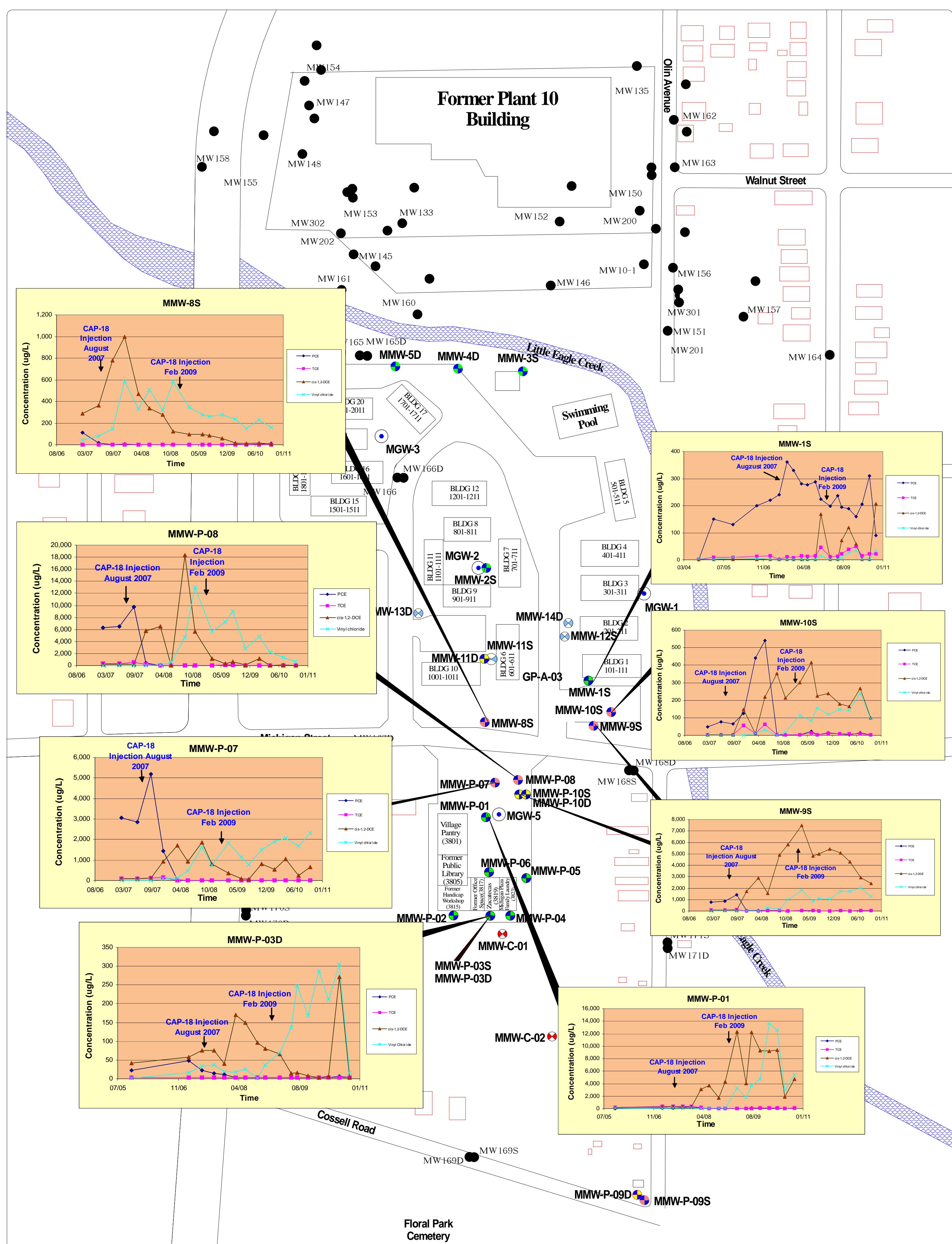
IDEM RISC Default Industrial Cleanup Level	55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level	5	5	70	100	80	2

Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002



Groundwater Analytical Map 4th Quarter 2010 Sampling Date: October 12-14, 2010

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

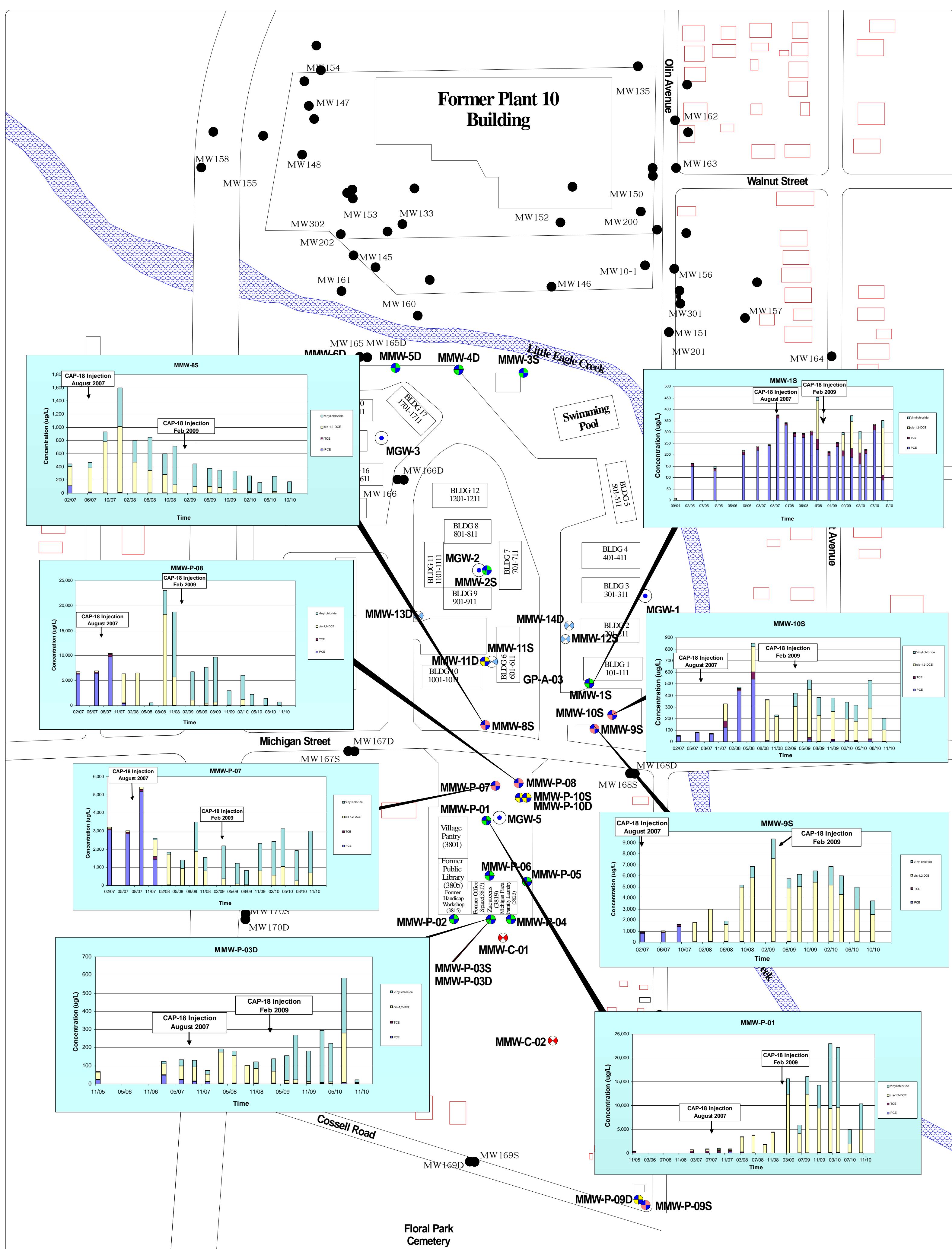


LEGEND

- MW 160 ● Fence
- MW 160 ● Keramida/Environ Monitoring Wells
- MMW-P-06 ● MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
- MMW-P-07 ● MUNDELL Monitoring Wells (January 2007)
- MMW-P-09D ● MUNDELL Monitoring Wells (May-June 2007)
- MMW-C-01 ● MUNDELL Monitoring Wells (July/August 2008)
- MMW-11S ● MUNDELL Monitoring Wells (November/December 2008)
- MGW-1 ● MUNDELL Soil Gas Well



SCALE
feet
0 200
Keramida Monitoring Well Locations Referenced
from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002

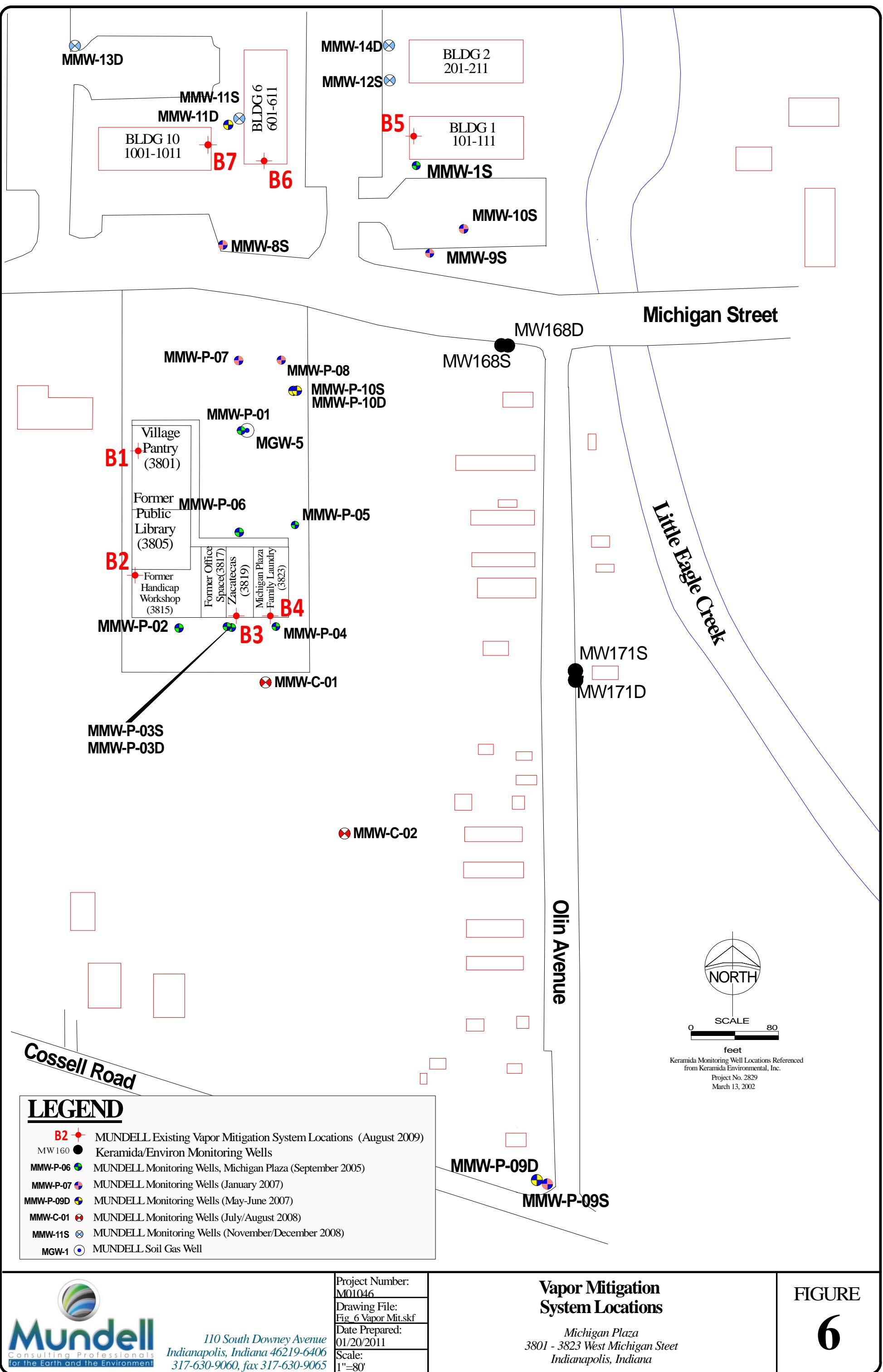


LEGEND

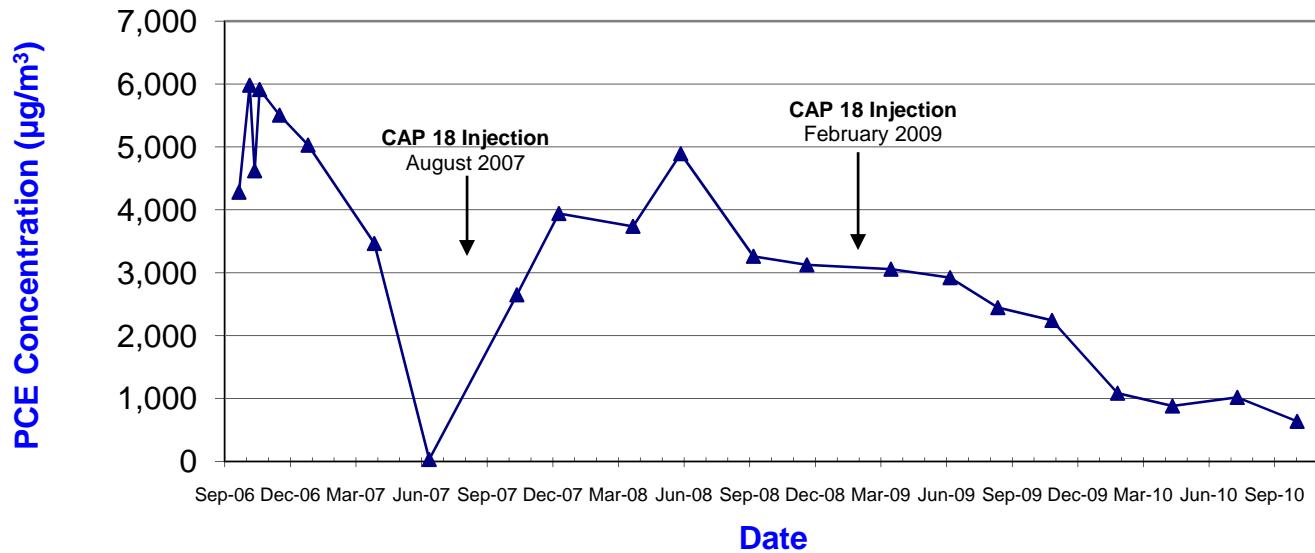
- MW 160 ● Fence
- MW 160 ● Keramida/Environ Monitoring Wells
- MMW-P-06 ● MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
- MMW-P-07 ● MUNDELL Monitoring Wells (January 2007)
- MMW-P-09D ● MUNDELL Monitoring Wells (May-June 2007)
- MMW-C-01 ● MUNDELL Monitoring Wells (July/August 2008)
- MMW-11S ● MUNDELL Monitoring Wells (November/December 2008)
- MGW-1 ● MUNDELL Soil Gas Well



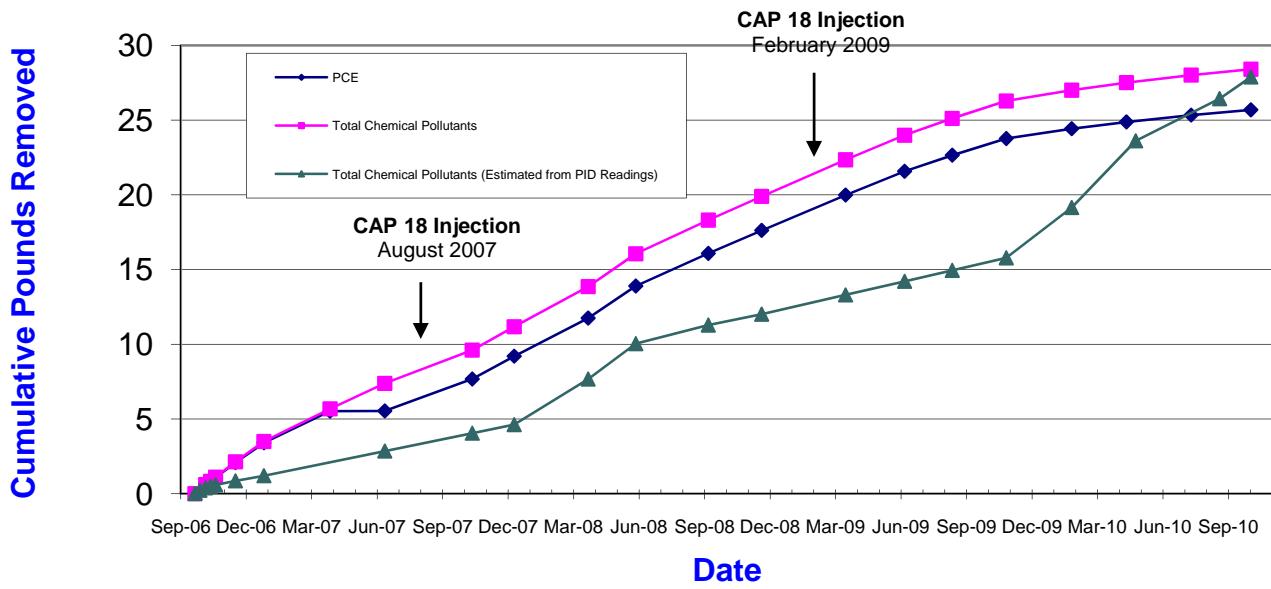
NORTH
SCALE
feet
0 200
Keramida Monitoring Well Locations Referenced
from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002



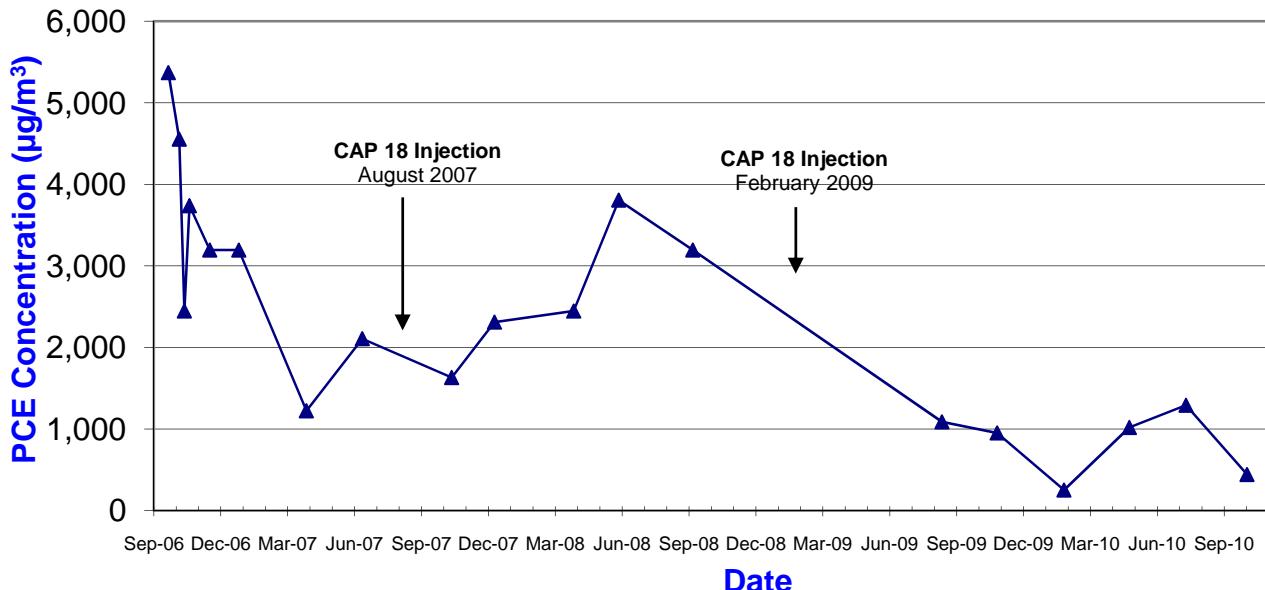
**PCE Vapor Concentrations Trend -
Village Pantry Vapor Mitigation System (B1)**



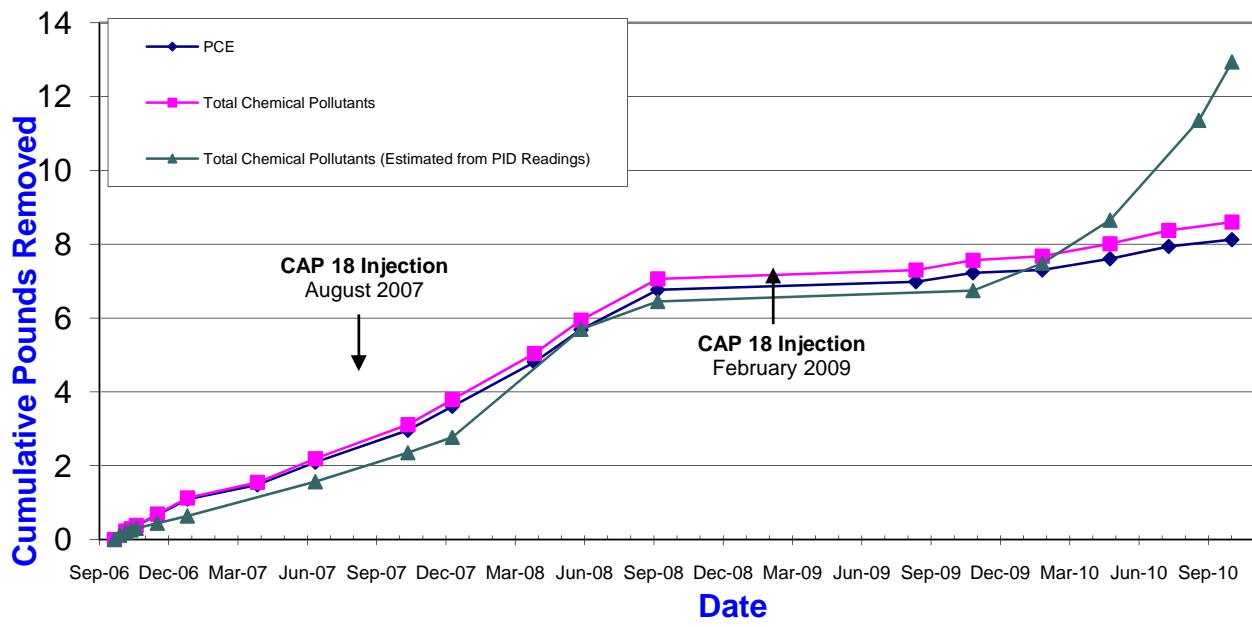
**Chemical Pounds Removed -
Village Pantry Vapor Mitigation System (B1)**



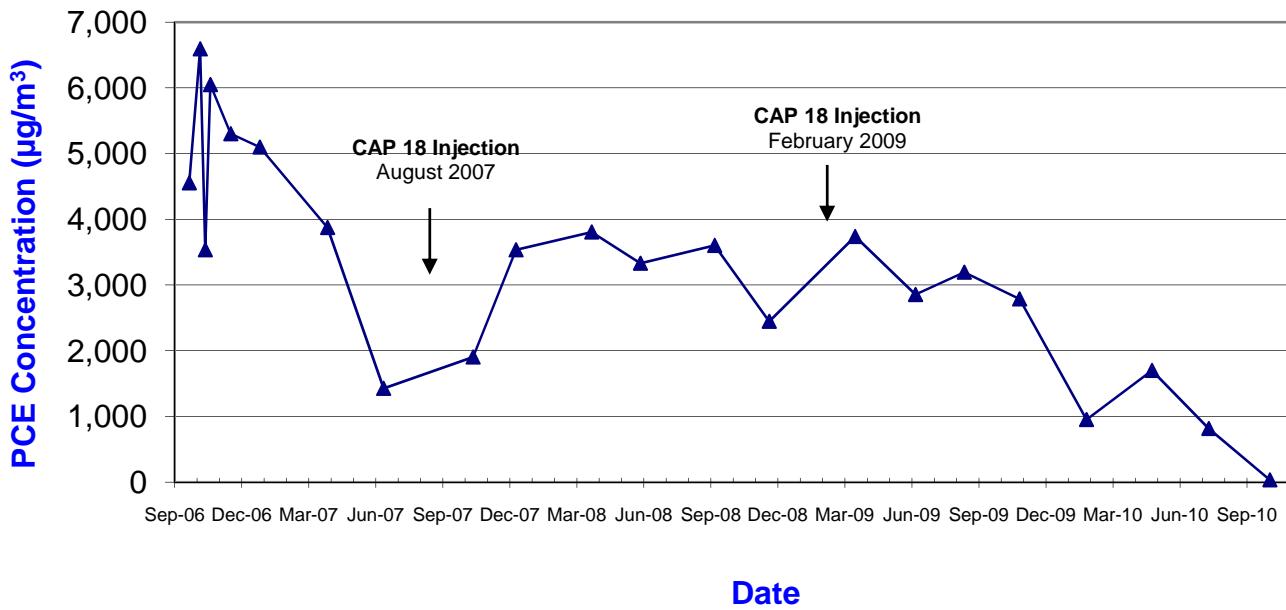
**PCE Vapor Concentrations Trend -
Handicap Space Vapor Mitigation System (B2)**



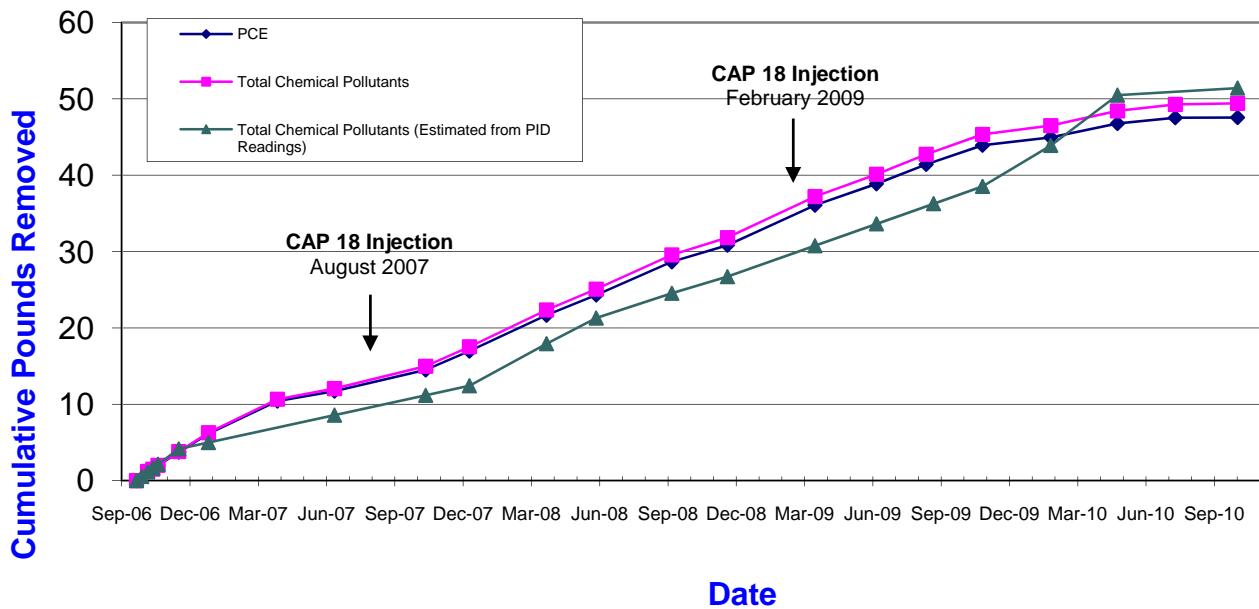
**Chemical Pounds Removed -
Handicap Space Vapor Mitigation System (B2)**



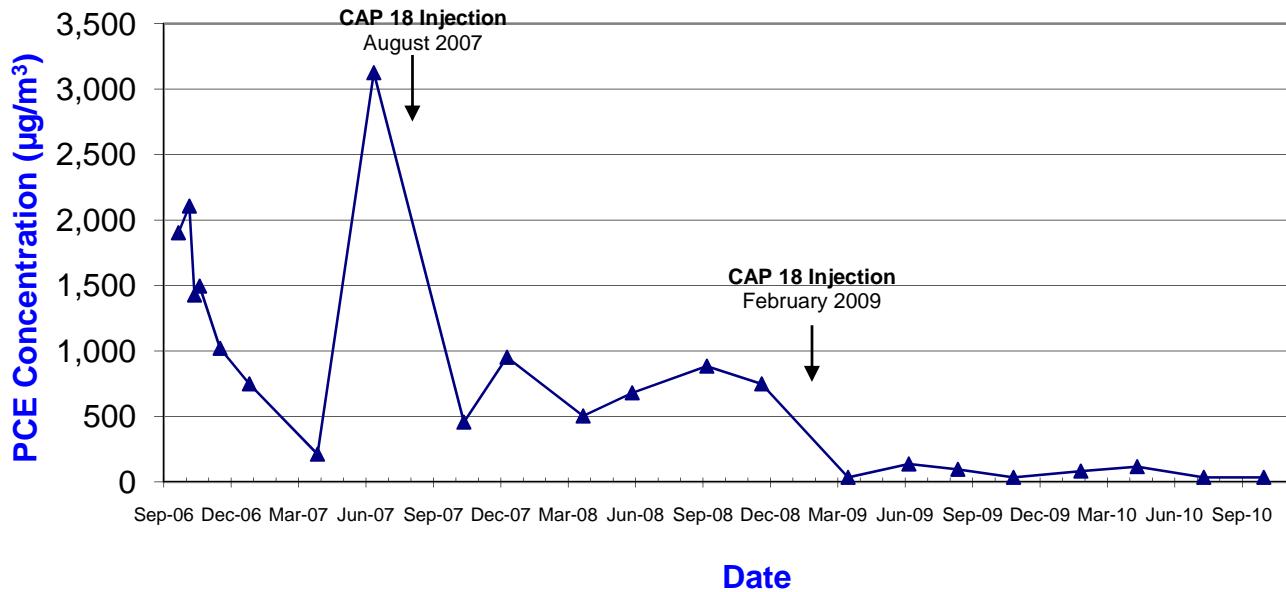
**PCE Vapor Concentrations Trend -
Mexican Store Vapor Mitigation System (B3)**



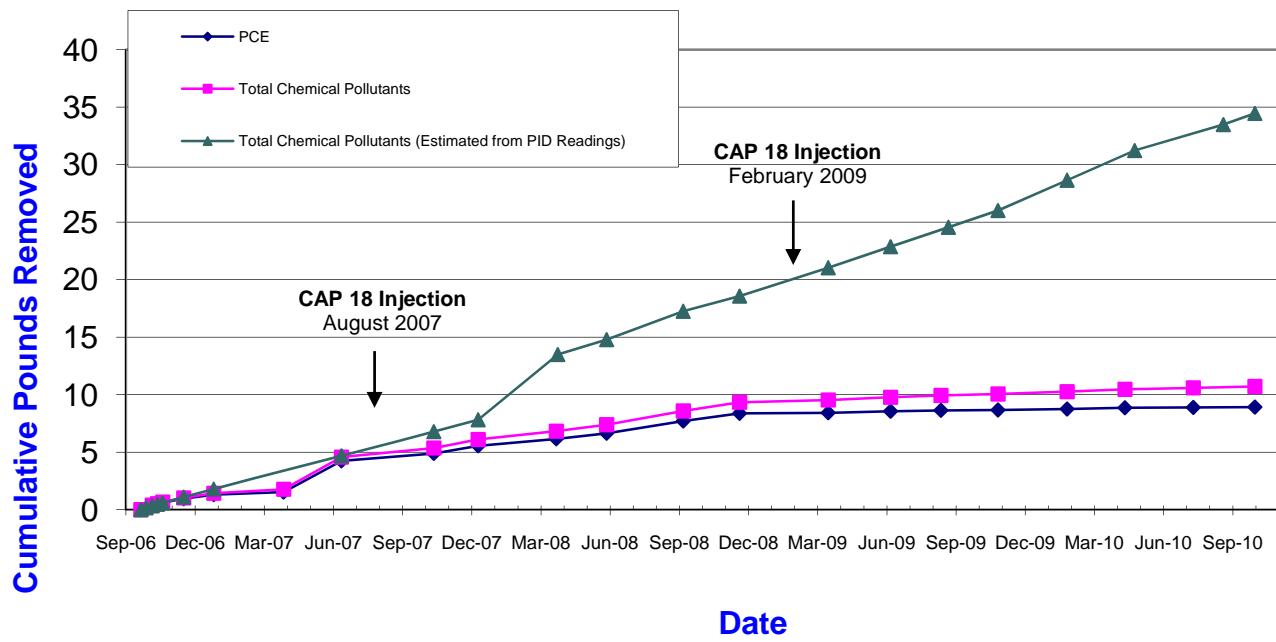
**Chemical Pounds Removed -
Mexican Store Vapor Mitigation System (B3)**



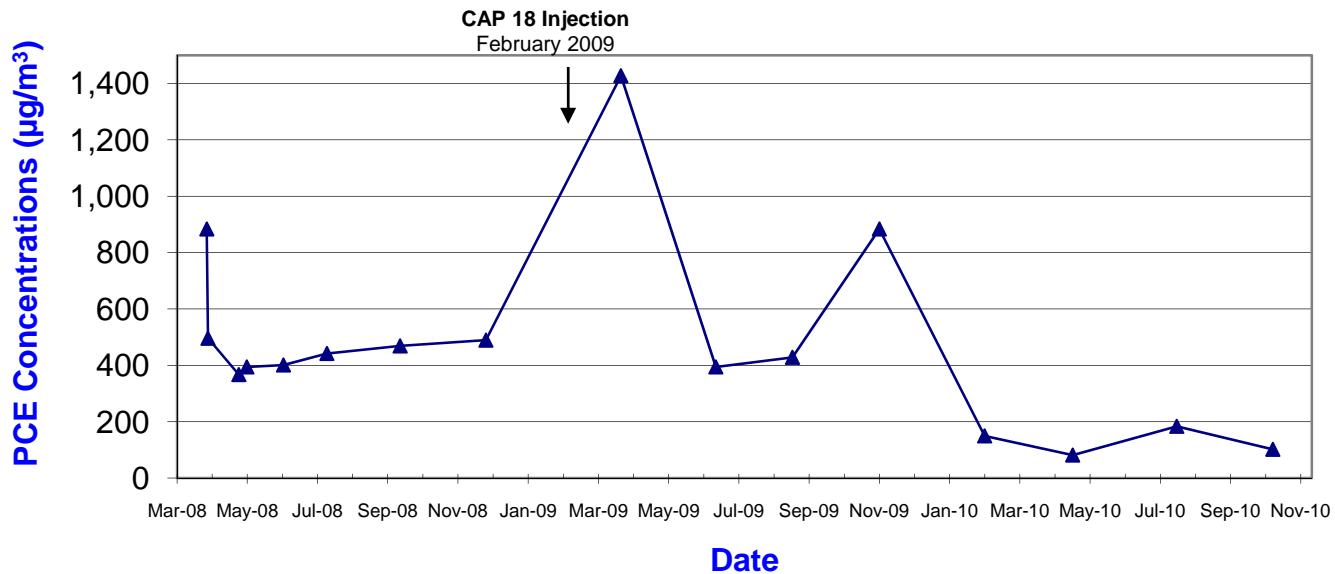
**PCE Vapor Concentrations Trend -
Laundromat Vapor Mitigation System (B4)**



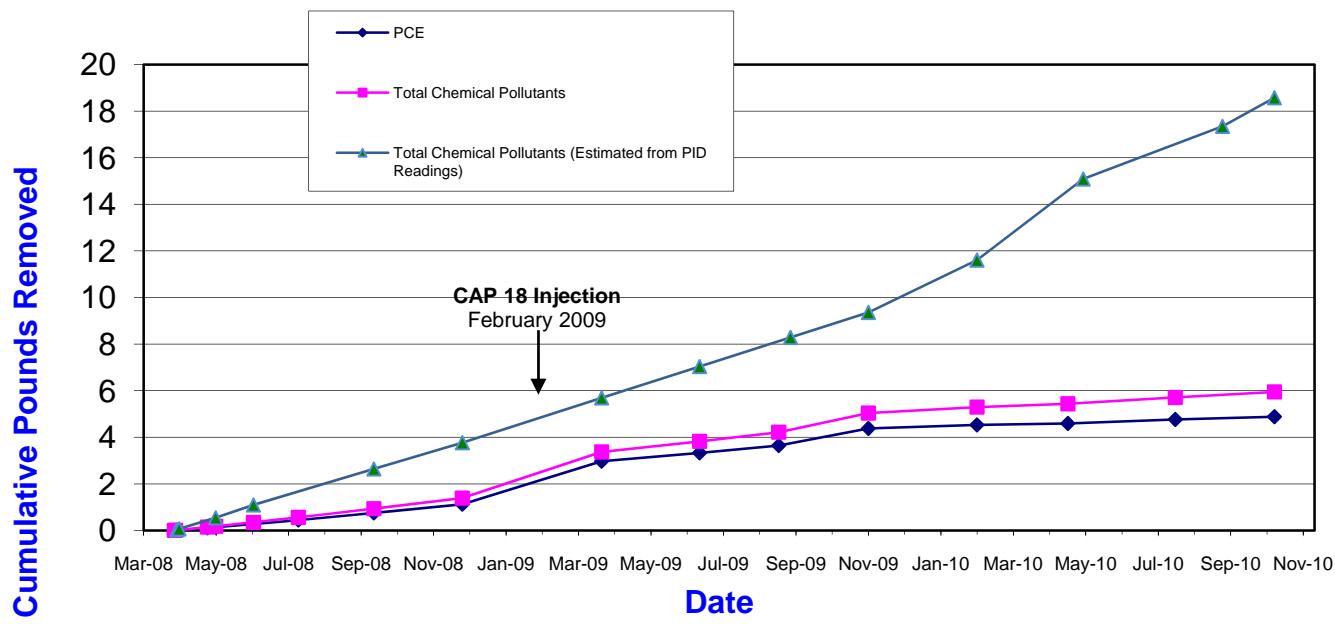
**Chemical Pounds Removed -
Laundromat Vapor Mitigation System (B4)**



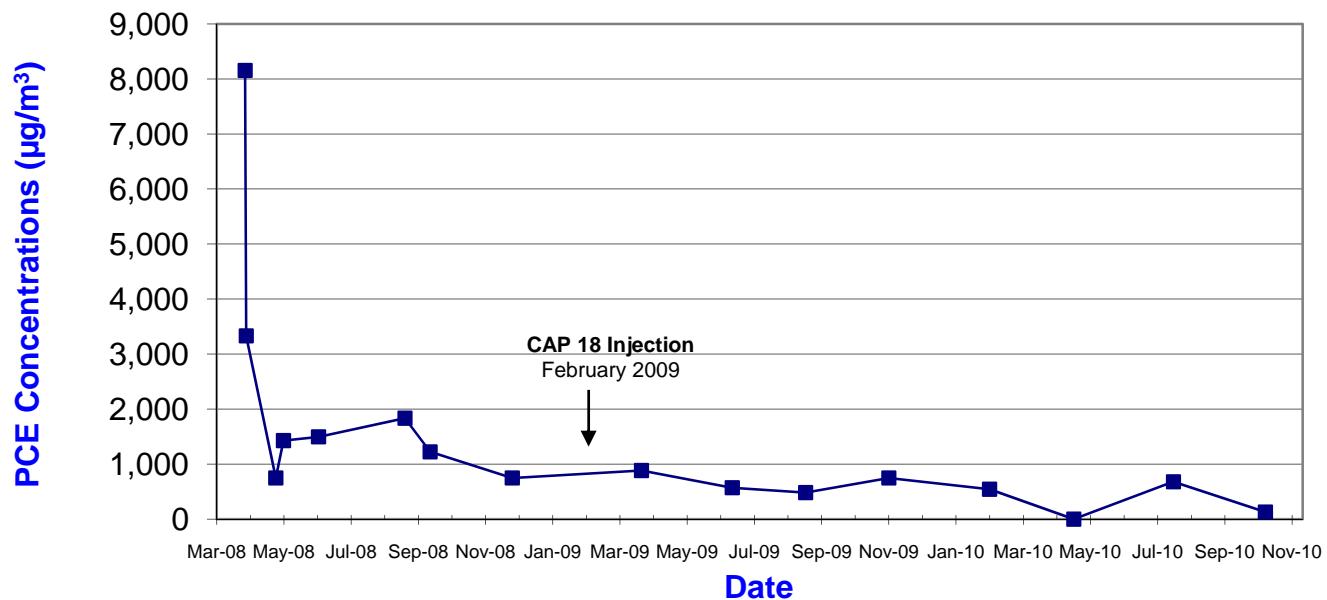
**PCE Vapor Concentrations Trend -
Apartment Building 1 Vapor Mitigation System (B5)**



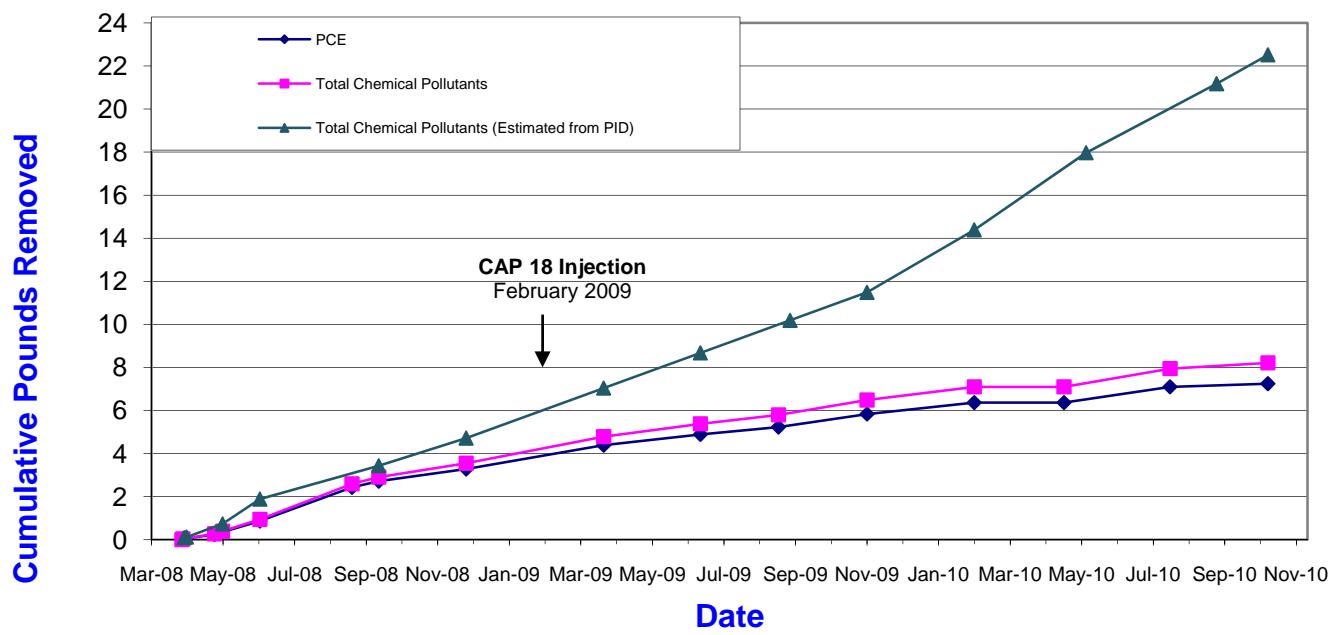
**Chemical Pounds Removed -
Apartment Building 1 Vapor Mitigation System (B5)**



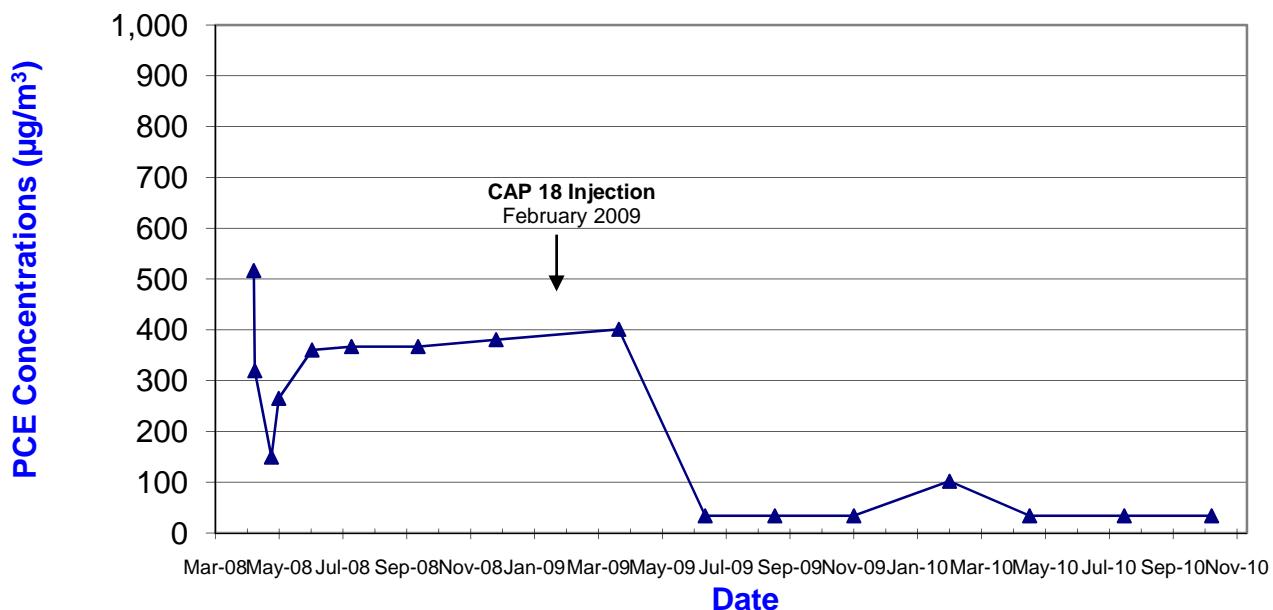
**PCE Vapor Concentrations Trend -
Apartment Building 6 Vapor Mitigation System (B6)**



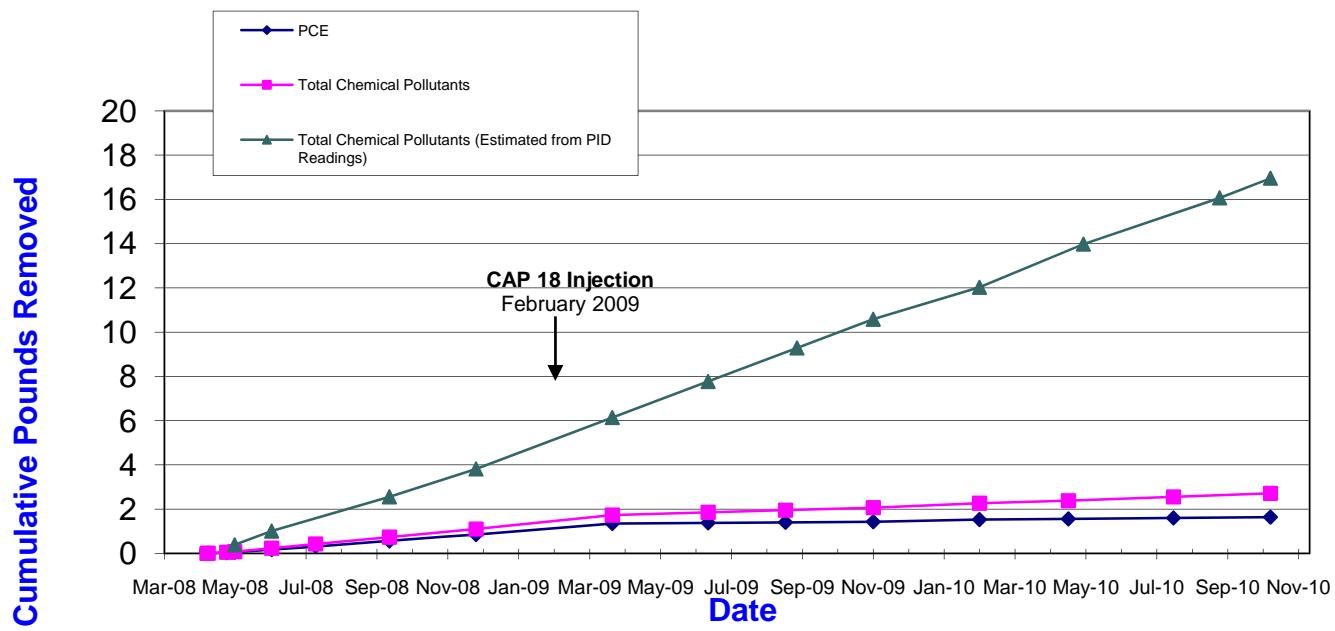
**Chemical Pounds Removed -
Apartment Building 6 Vapor Mitigation System (B6)**



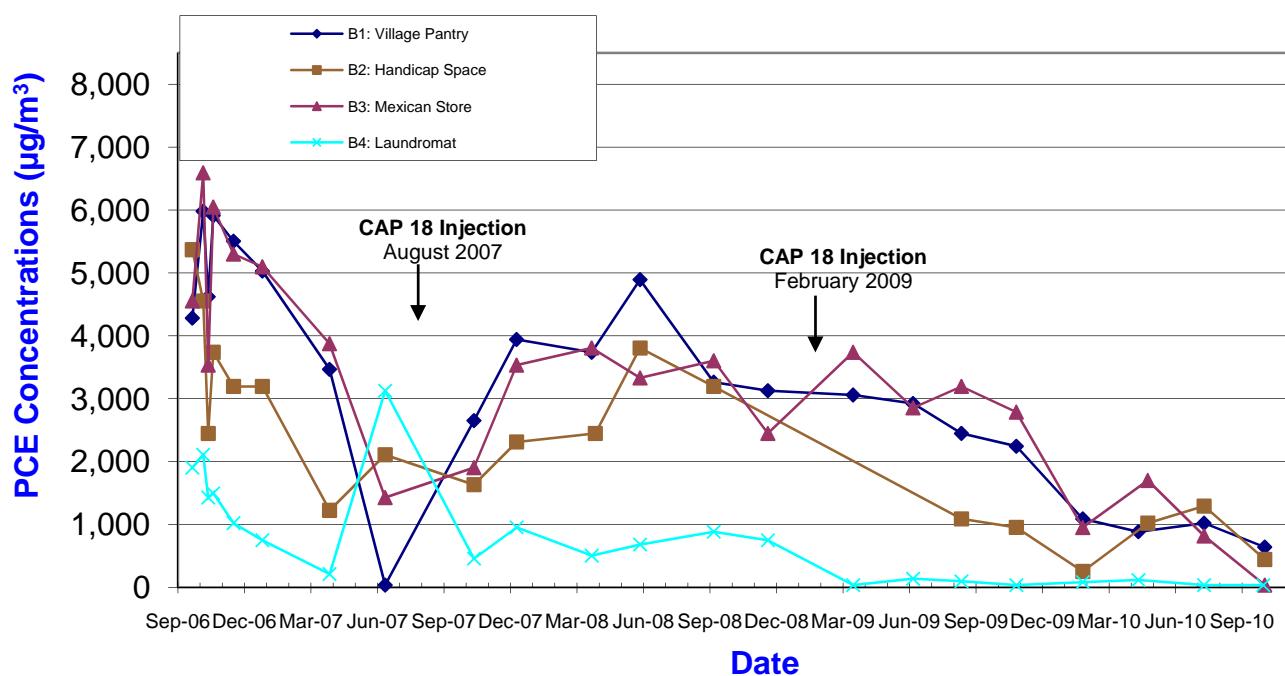
**PCE Vapor Concentrations Trend -
Apartment Building 10 Vapor Mitigation System (B7)**



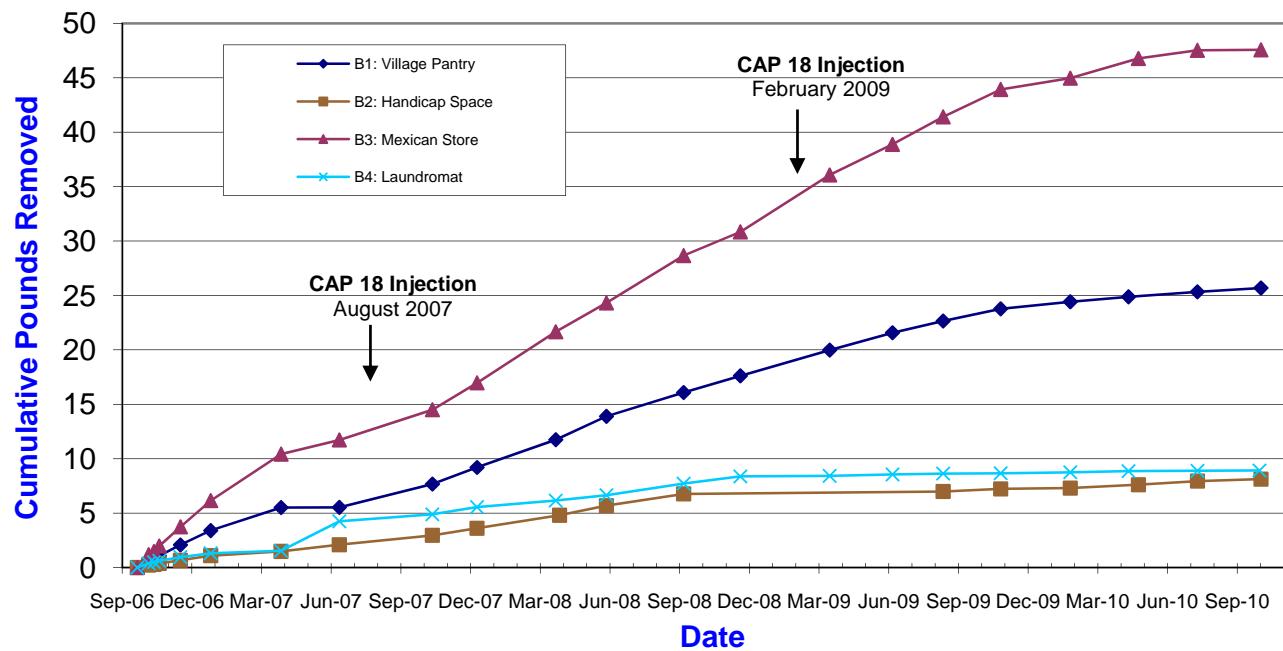
**Chemical Pounds Removed -
Apartment Building 10 Vapor Mitigation System (B7)**



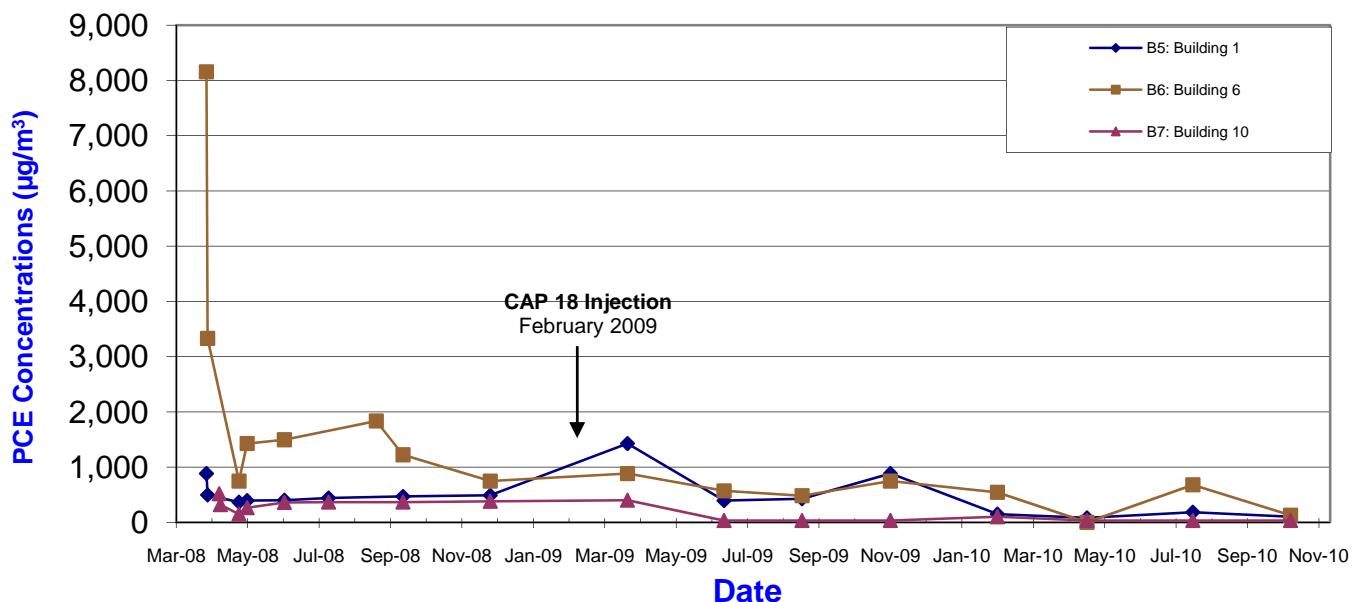
PCE Concentrations Trend - Plaza Vapor Mitigation Systems (B1-B4)



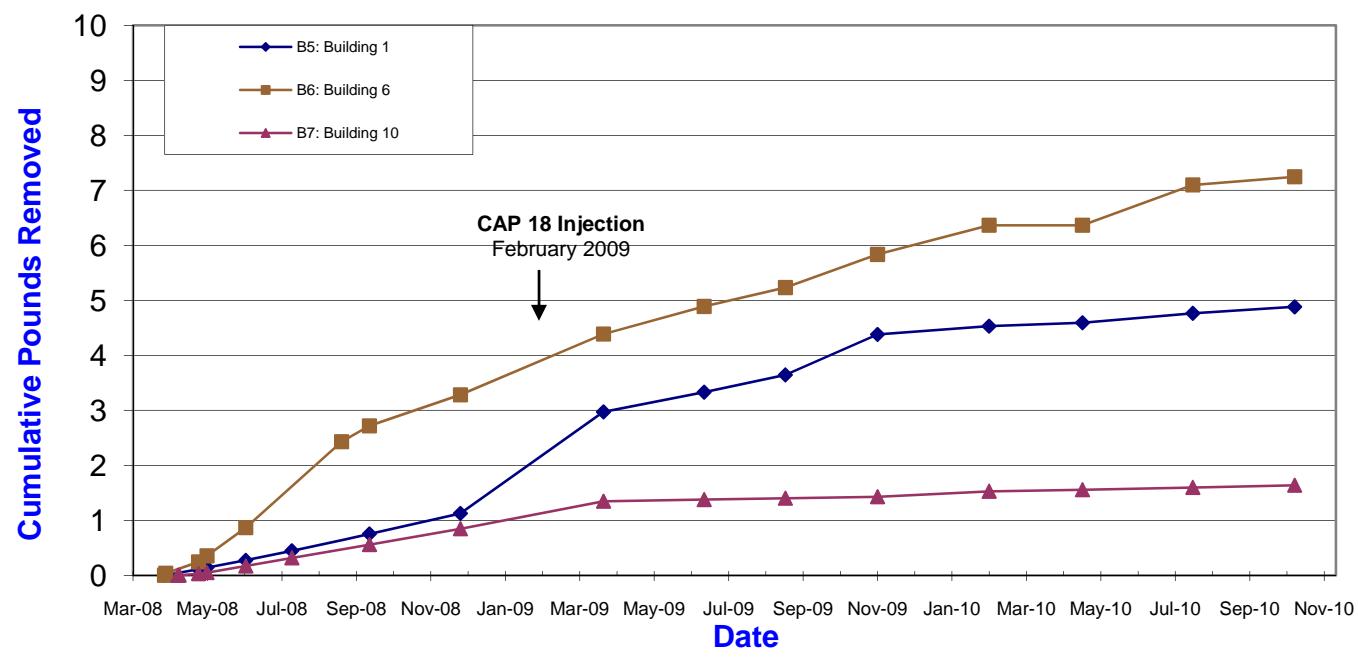
PCE Pounds Removed - Plaza Vapor Mitigation Systems (B1-B4)



**PCE Concentrations Trend -
Apartment Vapor Mitigation Systems (B5-B7)**



**PCE Pounds Removed -
Apartment Vapor Mitigation Systems (B5-B7)**



APPENDIX A

Lab Analytical Results

October 29, 2010

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

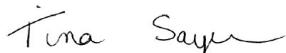
RE: Project: Michigan Plaza M01046
Pace Project No.: 5042463

Dear Ms. Webb:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
 Pace Project No.: 5042463

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5042463001	MMW-P-01	Water	10/14/10 11:04	10/15/10 10:25
5042463002	MMW-P-06	Water	10/14/10 10:43	10/15/10 10:25
5042463003	MMW-P-07	Water	10/14/10 10:25	10/15/10 10:25
5042463004	MMW-P-08	Water	10/14/10 10:06	10/15/10 10:25
5042463005	MMW-P-10S	Water	10/14/10 09:30	10/15/10 10:25
5042463006	MMW-P-10D	Water	10/14/10 09:45	10/15/10 10:25
5042463007	MMW-C-01	Water	10/14/10 12:10	10/15/10 10:25
5042463008	Dup 2	Water	10/14/10 08:00	10/15/10 10:25
5042463009	EQ Blank	Water	10/14/10 15:45	10/15/10 10:25
5042463010	Trip Blank	Water	10/14/10 08:00	10/15/10 10:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
 Pace Project No.: 5042463

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5042463001	MMW-P-01	EPA 8260	JLF	20
5042463002	MMW-P-06	EPA 8260	JLF	20
5042463003	MMW-P-07	EPA 8260	JLF	20
5042463004	MMW-P-08	SM 2340B	FRW	1
		EPA 8260	JLF	20
		EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
5042463005	MMW-P-10S	EPA 8260	JLF	20
		EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
5042463006	MMW-P-10D	EPA 8260	JLF	20
5042463007	MMW-C-01	EPA 8260	JLF	20
5042463008	Dup 2	EPA 8260	JLF	20
5042463009	EQ Blank	EPA 8260	JLF	20
5042463010	Trip Blank	EPA 8260	JLF	20

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: MMW-P-01	Lab ID: 5042463001	Collected: 10/14/10 11:04	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	125	25		10/22/10 15:26	71-43-2	2d,D4
Carbon tetrachloride	ND	ug/L	125	25		10/22/10 15:26	56-23-5	
Chloroform	ND	ug/L	125	25		10/22/10 15:26	67-66-3	
1,1-Dichloroethane	ND	ug/L	125	25		10/22/10 15:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	125	25		10/22/10 15:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	25		10/22/10 15:26	75-35-4	
cis-1,2-Dichloroethene	4760	ug/L	125	25		10/22/10 15:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	125	25		10/22/10 15:26	156-60-5	
Ethylbenzene	ND	ug/L	125	25		10/22/10 15:26	100-41-4	
Methylene chloride	ND	ug/L	125	25		10/22/10 15:26	75-09-2	
Naphthalene	ND	ug/L	125	25		10/22/10 15:26	91-20-3	
Tetrachloroethene	ND	ug/L	125	25		10/22/10 15:26	127-18-4	
Toluene	ND	ug/L	125	25		10/22/10 15:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	125	25		10/22/10 15:26	71-55-6	
Trichloroethene	ND	ug/L	125	25		10/22/10 15:26	79-01-6	
Vinyl chloride	5440	ug/L	50.0	25		10/22/10 15:26	75-01-4	
Xylene (Total)	ND	ug/L	250	25		10/22/10 15:26	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	25		10/22/10 15:26	1868-53-7	
4-Bromofluorobenzene (S)	105 %		70-126	25		10/22/10 15:26	460-00-4	
Toluene-d8 (S)	92 %		80-116	25		10/22/10 15:26	2037-26-5	

Date: 10/29/2010 02:31 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: MMW-P-06	Lab ID: 5042463002	Collected: 10/14/10 10:43	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	100	20		10/22/10 16:03	71-43-2	1d,D4
Carbon tetrachloride	ND	ug/L	100	20		10/22/10 16:03	56-23-5	
Chloroform	ND	ug/L	100	20		10/22/10 16:03	67-66-3	
1,1-Dichloroethane	ND	ug/L	100	20		10/22/10 16:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	100	20		10/22/10 16:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	20		10/22/10 16:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	100	20		10/22/10 16:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	20		10/22/10 16:03	156-60-5	
Ethylbenzene	ND	ug/L	100	20		10/22/10 16:03	100-41-4	
Methylene chloride	ND	ug/L	100	20		10/22/10 16:03	75-09-2	
Naphthalene	ND	ug/L	100	20		10/22/10 16:03	91-20-3	
Tetrachloroethene	ND	ug/L	100	20		10/22/10 16:03	127-18-4	
Toluene	ND	ug/L	100	20		10/22/10 16:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	100	20		10/22/10 16:03	71-55-6	
Trichloroethene	ND	ug/L	100	20		10/22/10 16:03	79-01-6	
Vinyl chloride	12900	ug/L	500	250		10/26/10 19:44	75-01-4	
Xylene (Total)	ND	ug/L	200	20		10/22/10 16:03	1330-20-7	
Dibromofluoromethane (S)	100 %		80-123	20		10/22/10 16:03	1868-53-7	
4-Bromofluorobenzene (S)	111 %		70-126	20		10/22/10 16:03	460-00-4	
Toluene-d8 (S)	91 %		80-116	20		10/22/10 16:03	2037-26-5	

Date: 10/29/2010 02:31 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: MMW-P-07	Lab ID: 5042463003	Collected: 10/14/10 10:25	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	25.0	5		10/22/10 16:41	71-43-2	3d,D4
Carbon tetrachloride	ND	ug/L	25.0	5		10/22/10 16:41	56-23-5	
Chloroform	ND	ug/L	25.0	5		10/22/10 16:41	67-66-3	
1,1-Dichloroethane	ND	ug/L	25.0	5		10/22/10 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		10/22/10 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		10/22/10 16:41	75-35-4	
cis-1,2-Dichloroethene	665	ug/L	25.0	5		10/22/10 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	5		10/22/10 16:41	156-60-5	
Ethylbenzene	ND	ug/L	25.0	5		10/22/10 16:41	100-41-4	
Methylene chloride	ND	ug/L	25.0	5		10/22/10 16:41	75-09-2	
Naphthalene	ND	ug/L	25.0	5		10/22/10 16:41	91-20-3	
Tetrachloroethene	ND	ug/L	25.0	5		10/22/10 16:41	127-18-4	
Toluene	ND	ug/L	25.0	5		10/22/10 16:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		10/22/10 16:41	71-55-6	
Trichloroethene	ND	ug/L	25.0	5		10/22/10 16:41	79-01-6	
Vinyl chloride	2310	ug/L	200	100		10/26/10 20:21	75-01-4	
Xylene (Total)	ND	ug/L	50.0	5		10/22/10 16:41	1330-20-7	
Dibromofluoromethane (S)	105 %		80-123	5		10/22/10 16:41	1868-53-7	
4-Bromofluorobenzene (S)	112 %		70-126	5		10/22/10 16:41	460-00-4	
Toluene-d8 (S)	92 %		80-116	5		10/22/10 16:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: MMW-P-08	Lab ID: 5042463004	Collected: 10/14/10 10:06	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	920	mg/L	1.0	1		10/20/10 13:54		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	25.0	5		10/22/10 17:18	71-43-2	3d,D4
Carbon tetrachloride	ND	ug/L	25.0	5		10/22/10 17:18	56-23-5	
Chloroform	ND	ug/L	25.0	5		10/22/10 17:18	67-66-3	
1,1-Dichloroethane	ND	ug/L	25.0	5		10/22/10 17:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		10/22/10 17:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		10/22/10 17:18	75-35-4	
cis-1,2-Dichloroethene	39.5	ug/L	25.0	5		10/22/10 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	5		10/22/10 17:18	156-60-5	
Ethylbenzene	ND	ug/L	25.0	5		10/22/10 17:18	100-41-4	
Methylene chloride	ND	ug/L	25.0	5		10/22/10 17:18	75-09-2	
Naphthalene	ND	ug/L	25.0	5		10/22/10 17:18	91-20-3	
Tetrachloroethene	ND	ug/L	25.0	5		10/22/10 17:18	127-18-4	
Toluene	ND	ug/L	25.0	5		10/22/10 17:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		10/22/10 17:18	71-55-6	
Trichloroethene	ND	ug/L	25.0	5		10/22/10 17:18	79-01-6	
Vinyl chloride	676	ug/L	10.0	5		10/22/10 17:18	75-01-4	
Xylene (Total)	ND	ug/L	50.0	5		10/22/10 17:18	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	5		10/22/10 17:18	1868-53-7	
4-Bromofluorobenzene (S)	113	%	70-126	5		10/22/10 17:18	460-00-4	
Toluene-d8 (S)	90	%	80-116	5		10/22/10 17:18	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/15/10 17:36		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		10/22/10 11:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: MMW-P-10S	Lab ID: 5042463005	Collected: 10/14/10 09:30	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 17:56	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 17:56	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 17:56	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 17:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 17:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 17:56	75-35-4	
cis-1,2-Dichloroethene	5.4	ug/L	5.0	1		10/22/10 17:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 17:56	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 17:56	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 17:56	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 17:56	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 17:56	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 17:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 17:56	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 17:56	79-01-6	
Vinyl chloride	381	ug/L	20.0	10		10/26/10 20:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 17:56	1330-20-7	
Dibromofluoromethane (S)	108 %		80-123	1		10/22/10 17:56	1868-53-7	
4-Bromofluorobenzene (S)	106 %		70-126	1		10/22/10 17:56	460-00-4	
Toluene-d8 (S)	90 %		80-116	1		10/22/10 17:56	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/15/10 17:33		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	85.8	mg/L	25.0	1		10/22/10 11:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: MMW-P-10D	Lab ID: 5042463006	Collected: 10/14/10 09:45	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	25.0	5		10/22/10 19:48	71-43-2	3d,D4
Carbon tetrachloride	ND	ug/L	25.0	5		10/22/10 19:48	56-23-5	
Chloroform	ND	ug/L	25.0	5		10/22/10 19:48	67-66-3	
1,1-Dichloroethane	ND	ug/L	25.0	5		10/22/10 19:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		10/22/10 19:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		10/22/10 19:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	5		10/22/10 19:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	5		10/22/10 19:48	156-60-5	
Ethylbenzene	ND	ug/L	25.0	5		10/22/10 19:48	100-41-4	
Methylene chloride	ND	ug/L	25.0	5		10/22/10 19:48	75-09-2	
Naphthalene	ND	ug/L	25.0	5		10/22/10 19:48	91-20-3	
Tetrachloroethene	ND	ug/L	25.0	5		10/22/10 19:48	127-18-4	
Toluene	ND	ug/L	25.0	5		10/22/10 19:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		10/22/10 19:48	71-55-6	
Trichloroethene	ND	ug/L	25.0	5		10/22/10 19:48	79-01-6	
Vinyl chloride	707	ug/L	10.0	5		10/22/10 19:48	75-01-4	
Xylene (Total)	ND	ug/L	50.0	5		10/22/10 19:48	1330-20-7	
Dibromofluoromethane (S)	104 %		80-123	5		10/22/10 19:48	1868-53-7	
4-Bromofluorobenzene (S)	105 %		70-126	5		10/22/10 19:48	460-00-4	
Toluene-d8 (S)	92 %		80-116	5		10/22/10 19:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: MMW-C-01	Lab ID: 5042463007	Collected: 10/14/10 12:10	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 20:25	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 20:25	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 20:25	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 20:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 20:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 20:25	75-35-4	
cis-1,2-Dichloroethene	69.1	ug/L	5.0	1		10/22/10 20:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 20:25	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 20:25	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 20:25	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 20:25	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 20:25	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 20:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 20:25	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 20:25	79-01-6	
Vinyl chloride	1100	ug/L	20.0	10		10/26/10 21:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 20:25	1330-20-7	
Dibromofluoromethane (S)	106 %		80-123	1		10/22/10 20:25	1868-53-7	
4-Bromofluorobenzene (S)	106 %		70-126	1		10/22/10 20:25	460-00-4	
Toluene-d8 (S)	91 %		80-116	1		10/22/10 20:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: Dup 2	Lab ID: 5042463008	Collected: 10/14/10 08:00	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 21:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 21:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 21:03	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 21:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 21:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 21:03	75-35-4	
cis-1,2-Dichloroethene	29.7	ug/L	5.0	1		10/22/10 21:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 21:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 21:03	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 21:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 21:03	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 21:03	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 21:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 21:03	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 21:03	79-01-6	
Vinyl chloride	770	ug/L	20.0	10		10/26/10 22:13	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 21:03	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		10/22/10 21:03	1868-53-7	
4-Bromofluorobenzene (S)	107 %		70-126	1		10/22/10 21:03	460-00-4	
Toluene-d8 (S)	93 %		80-116	1		10/22/10 21:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: EQ Blank	Lab ID: 5042463009	Collected: 10/14/10 15:45	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 21:40	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 21:40	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 21:40	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 21:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 21:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 21:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 21:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 21:40	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 21:40	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 21:40	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 21:40	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 21:40	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 21:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 21:40	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 21:40	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/22/10 21:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 21:40	1330-20-7	
Dibromofluoromethane (S)	100 %		80-123	1		10/22/10 21:40	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		10/22/10 21:40	460-00-4	
Toluene-d8 (S)	93 %		80-116	1		10/22/10 21:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042463

Sample: Trip Blank	Lab ID: 5042463010	Collected: 10/14/10 08:00	Received: 10/15/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 22:17	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 22:17	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 22:17	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 22:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 22:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 22:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 22:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 22:17	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 22:17	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 22:17	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 22:17	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 22:17	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 22:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 22:17	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 22:17	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/22/10 22:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 22:17	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	1		10/22/10 22:17	1868-53-7	
4-Bromofluorobenzene (S)	106 %		70-126	1		10/22/10 22:17	460-00-4	
Toluene-d8 (S)	92 %		80-116	1		10/22/10 22:17	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046

Pace Project No.: 5042463

QC Batch:	MSV/27691	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5042463001, 5042463002, 5042463003, 5042463004, 5042463005, 5042463006, 5042463007, 5042463008, 5042463009, 5042463010		

METHOD BLANK: 498720 Matrix: Water

Associated Lab Samples: 5042463001, 5042463002, 5042463003, 5042463004, 5042463005, 5042463006, 5042463007, 5042463008,
5042463009, 5042463010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/22/10 14:49	
1,1-Dichloroethane	ug/L	ND	5.0	10/22/10 14:49	
1,1-Dichloroethene	ug/L	ND	5.0	10/22/10 14:49	
1,2-Dichloroethane	ug/L	ND	5.0	10/22/10 14:49	
Benzene	ug/L	ND	5.0	10/22/10 14:49	
Carbon tetrachloride	ug/L	ND	5.0	10/22/10 14:49	
Chloroform	ug/L	ND	5.0	10/22/10 14:49	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/22/10 14:49	
Ethylbenzene	ug/L	ND	5.0	10/22/10 14:49	
Methylene chloride	ug/L	ND	5.0	10/22/10 14:49	
Naphthalene	ug/L	ND	5.0	10/22/10 14:49	
Tetrachloroethene	ug/L	ND	5.0	10/22/10 14:49	
Toluene	ug/L	ND	5.0	10/22/10 14:49	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/22/10 14:49	
Trichloroethene	ug/L	ND	5.0	10/22/10 14:49	
Vinyl chloride	ug/L	ND	2.0	10/22/10 14:49	
Xylene (Total)	ug/L	ND	10.0	10/22/10 14:49	
4-Bromofluorobenzene (S)	%	105	70-126	10/22/10 14:49	
Dibromofluoromethane (S)	%	102	80-123	10/22/10 14:49	
Toluene-d8 (S)	%	92	80-116	10/22/10 14:49	

LABORATORY CONTROL SAMPLE: 498721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.1	98	69-136	
1,1-Dichloroethane	ug/L	50	43.6	87	67-133	
1,1-Dichloroethene	ug/L	50	55.5	111	63-128	
1,2-Dichloroethane	ug/L	50	51.7	103	69-139	
Benzene	ug/L	50	51.3	103	78-127	
Carbon tetrachloride	ug/L	50	46.9	94	62-143	
Chloroform	ug/L	50	48.9	98	74-131	
cis-1,2-Dichloroethene	ug/L	50	54.6	109	74-128	
Ethylbenzene	ug/L	50	48.2	96	81-126	
Methylene chloride	ug/L	50	55.6	111	32-164	
Naphthalene	ug/L	50	53.5	107	61-135	
Tetrachloroethene	ug/L	50	50.1	100	60-119	
Toluene	ug/L	50	45.7	91	75-129	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	71-126	
Trichloroethene	ug/L	50	50.9	102	74-130	
Vinyl chloride	ug/L	50	50.3	101	55-141	

Date: 10/29/2010 02:31 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5042463

LABORATORY CONTROL SAMPLE: 498721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	146	97	76-132	
4-Bromofluorobenzene (S)	%			93	70-126	
Dibromofluoromethane (S)	%			102	80-123	
Toluene-d8 (S)	%			99	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 498722 498723

Parameter	Units	5042463005		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		Spiked	Conc.	Spike	Conc.						
1,1,1-Trichloroethane	ug/L	ND	50	50	51.2	55.3	102	111	64-143	8	20
1,1-Dichloroethane	ug/L	ND	50	50	46.2	49.2	92	98	68-139	6	20
1,1-Dichloroethene	ug/L	ND	50	50	61.2	65.3	122	131	55-140	6	20
1,2-Dichloroethane	ug/L	ND	50	50	54.7	58.8	109	118	63-148	7	20
Benzene	ug/L	ND	50	50	53.3	57.8	107	116	63-141	8	20
Carbon tetrachloride	ug/L	ND	50	50	48.1	53.0	96	106	54-145	10	20
Chloroform	ug/L	ND	50	50	51.7	55.5	102	110	67-134	7	20
cis-1,2-Dichloroethene	ug/L	5.4	50	50	63.5	68.0	116	125	65-132	7	20
Ethylbenzene	ug/L	ND	50	50	46.2	51.0	92	102	44-151	10	20
Methylene chloride	ug/L	ND	50	50	62.9	66.1	126	132	46-154	5	20
Naphthalene	ug/L	ND	50	50	53.8	59.4	108	119	44-138	10	20
Tetrachloroethene	ug/L	ND	50	50	48.2	52.2	96	104	25-146	8	20
Toluene	ug/L	ND	50	50	46.1	49.7	91	99	59-142	8	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	54.9	59.8	110	120	60-137	8	20
Trichloroethene	ug/L	ND	50	50	50.7	56.2	100	111	61-137	10	20
Vinyl chloride	ug/L	381	50	50	420	424	77	86	51-144	1	20
Xylene (Total)	ug/L	ND	150	150	137	153	91	102	44-152	11	20
4-Bromofluorobenzene (S)	%						93	92	70-126		20
Dibromofluoromethane (S)	%						102	103	80-123		20
Toluene-d8 (S)	%						97	98	80-116		20

QUALITY CONTROL DATA

Project: Michigan Plaza M01046

Pace Project No.: 5042463

QC Batch: WETA/5640 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 5042463004, 5042463005

METHOD BLANK: 495678 Matrix: Water

Associated Lab Samples: 5042463004, 5042463005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	10/15/10 17:30	

LABORATORY CONTROL SAMPLE: 495679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 495680 495681

Parameter	Units	5042463005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.4	1.4	71	70	90-110	1	20	M3

QUALITY CONTROL DATA

Project: Michigan Plaza M01046

Pace Project No.: 5042463

QC Batch: WETA/5666 Analysis Method: ASTM D516-90,02

QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water

Associated Lab Samples: 5042463004, 5042463005

METHOD BLANK: 497803 Matrix: Water

Associated Lab Samples: 5042463004, 5042463005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	10/22/10 11:05	

LABORATORY CONTROL SAMPLE: 497804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.2	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 497805 497806

Parameter	Units	5042409002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Sulfate	mg/L	21.4	20	20	42.0	41.9	103	102	75-125	.2	20	

MATRIX SPIKE SAMPLE: 497931

Parameter	Units	5042517002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5.9	20	31.1	126	75-125	M0

QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5042463

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

- 1d Compound ND at an estimated RL of 12.8 ug/L, based on the MDL. JLF 10/25/10.
- 2d Compound ND at an estimated RL of 16 ug/L, based on the MDL. JLF 10/25/10.
- 3d Compound ND at an estimated RL of 5 ug/L, based on the MDL. JLF 10/25/10.
- D4 Sample was diluted due to the presence of high levels of target analytes.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M01046
 Pace Project No.: 5042463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5042463004	MMW-P-08	SM 2340B	ICP/5961		
5042463001	MMW-P-01	EPA 8260	MSV/27691		
5042463002	MMW-P-06	EPA 8260	MSV/27691		
5042463003	MMW-P-07	EPA 8260	MSV/27691		
5042463004	MMW-P-08	EPA 8260	MSV/27691		
5042463005	MMW-P-10S	EPA 8260	MSV/27691		
5042463006	MMW-P-10D	EPA 8260	MSV/27691		
5042463007	MMW-C-01	EPA 8260	MSV/27691		
5042463008	Dup 2	EPA 8260	MSV/27691		
5042463009	EQ Blank	EPA 8260	MSV/27691		
5042463010	Trip Blank	EPA 8260	MSV/27691		
5042463004	MMW-P-08	EPA 353.2	WETA/5640		
5042463005	MMW-P-10S	EPA 353.2	WETA/5640		
5042463004	MMW-P-08	ASTM D516-90,02	WETA/5666		
5042463005	MMW-P-10S	ASTM D516-90,02	WETA/5666		



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

SALES ORDER FORM

***Important Note:** By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for all invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc. Project # 5042463

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 1 2 3 4 5 A B C D E Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 2.1 °C

Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 10/15/10 ZJ

Chain of Custody Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8. <i>Water</i>
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: J. Day

Date: 10/15/10

CLIENT: Mundell & Assoc.

Sample Container Count



COC PAGE 1 of 1
COC ID# 1367384

Project # 5042463

Sample Line Item	DG9H	AG1U	WG FU R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3												
2	3												
3	3												
4	3												
5	3												
6	3												
7	3												
8	3												
9	3												
10	3												
11													
12													

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	BP1S	1 liter H2SO4 plastic	BP1T	1 liter HCl amber glass	BP1U	1 liter H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H2SO4 plastic	BP1T	1 liter H2SO4 plastic	BP1U	1 liter unpreserved plastic	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	DG9S	40mL H2SO4 amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	BP1T	1 liter Thiosulfate amber gt	BP1Z	1 liter NaOH, Zn, Ac	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gt	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	BP2A	500mL NaOH, Asc Acid plastic	BP2O	500mL NaOH plastic	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	BP2Z	500mL NaOH, Zn Ac	JGFU	4oz unpreserved amber wide	Wipe/Swab	
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	JGFU	4oz unpreserved amber wide	JGFU	4oz unpreserved amber wide	Summa Can	U	Summa Can	
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	BP3A	250mL NaOH, Asc Acid plastic	BP3A	250mL NaOH, Asc Acid plastic	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCl clear vial	VG9H	40mL HCl clear vial
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial	VG9T	40mL Na Thio. clear vial						
BP3U	250mL unpreserved plastic	BP1H	1 liter HCl clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial	VG9U	40mL unpreserved clear vial						
BP3S	250mL H2SO4 plastic	BP1S	1 liter H2SO4 clear glass	C	Air Cassette	VSG	Headspace septa vial & HCl	VSG	Headspace septa vial & HCl						
AG3S	250mL H2SO4 glass amber	BP1T	1 liter Na Thiosulfate clear gla	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe	WGFX	4oz wide jar w/hexane wipe						
AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved glass	BP1A	1 liter NaOH, Asc Acid plastic	BP1A	1 liter NaOH, Asc Acid plastic	BP1A	1 liter NaOH, Asc Acid plastic	BP1A	1 liter NaOH, Asc Acid plastic	ZPLC	Ziploc Bag	ZPLC	Ziploc Bag

October 25, 2010

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza M01046
Pace Project No.: 5042409

Dear Ms. Webb:

Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
 Pace Project No.: 5042409

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5042409001	MMW-P-02	Water	10/13/10 12:24	10/14/10 11:30
5042409002	MMW-P-03S	Water	10/13/10 12:59	10/14/10 11:30
5042409003	MMW-P-03D	Water	10/13/10 12:37	10/14/10 11:30
5042409004	MMW-P-04	Water	10/13/10 13:17	10/14/10 11:30
5042409005	MMW-P-05	Water	10/13/10 13:41	10/14/10 11:30
5042409006	MMW-P-09D	Water	10/13/10 10:58	10/14/10 11:30
5042409007	MMW-P-09S	Water	10/13/10 10:05	10/14/10 11:30
5042409008	MW-168D	Water	10/13/10 09:38	10/14/10 11:30
5042409009	MMW-C-02	Water	10/13/10 11:15	10/14/10 11:30
5042409010	Dup	Water	10/13/10 08:00	10/14/10 11:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5042409

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5042409001	MMW-P-02	EPA 8260	SLB	20
5042409002	MMW-P-03S	SM 2340B	FRW	1
		EPA 8260	SLB	20
		EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
5042409003	MMW-P-03D	EPA 8260	SLB	20
		EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
5042409004	MMW-P-04	EPA 8260	SLB	20
5042409005	MMW-P-05	EPA 8260	SLB	20
5042409006	MMW-P-09D	EPA 8260	SLB	20
5042409007	MMW-P-09S	EPA 8260	SLB	20
		EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
5042409008	MW-168D	EPA 8260	SLB	20
		EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
5042409009	MMW-C-02	EPA 8260	SLB	20
5042409010	Dup	SM 2340B	FRW	1
		EPA 8260	SLB	20
		EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: MMW-P-02	Lab ID: 5042409001	Collected: 10/13/10 12:24	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/21/10 21:08	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/21/10 21:08	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/21/10 21:08	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/21/10 21:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/21/10 21:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/21/10 21:08	75-35-4	
cis-1,2-Dichloroethene	61.0	ug/L	5.0	1		10/21/10 21:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/21/10 21:08	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/21/10 21:08	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/21/10 21:08	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/21/10 21:08	91-20-3	
Tetrachloroethene	9.3	ug/L	5.0	1		10/21/10 21:08	127-18-4	
Toluene	ND	ug/L	5.0	1		10/21/10 21:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/21/10 21:08	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/21/10 21:08	79-01-6	
Vinyl chloride	95.0	ug/L	2.0	1		10/21/10 21:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/21/10 21:08	1330-20-7	
Dibromofluoromethane (S)	105 %		80-123	1		10/21/10 21:08	1868-53-7	
4-Bromofluorobenzene (S)	102 %		70-126	1		10/21/10 21:08	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		10/21/10 21:08	2037-26-5	

Date: 10/25/2010 01:29 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: MMW-P-03S	Lab ID: 5042409002	Collected: 10/13/10 12:59	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	500 mg/L		1.0	1		10/20/10 13:42		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		10/21/10 21:43	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		10/21/10 21:43	56-23-5	
Chloroform	ND ug/L		5.0	1		10/21/10 21:43	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		10/21/10 21:43	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		10/21/10 21:43	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		10/21/10 21:43	75-35-4	
cis-1,2-Dichloroethene	70.9 ug/L		5.0	1		10/21/10 21:43	156-59-2	
trans-1,2-Dichloroethene	9.2 ug/L		5.0	1		10/21/10 21:43	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		10/21/10 21:43	100-41-4	
Methylene chloride	ND ug/L		5.0	1		10/21/10 21:43	75-09-2	
Naphthalene	ND ug/L		5.0	1		10/21/10 21:43	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		10/21/10 21:43	127-18-4	
Toluene	ND ug/L		5.0	1		10/21/10 21:43	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		10/21/10 21:43	71-55-6	
Trichloroethene	ND ug/L		5.0	1		10/21/10 21:43	79-01-6	
Vinyl chloride	542 ug/L		20.0	10		10/22/10 08:44	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		10/21/10 21:43	1330-20-7	
Dibromofluoromethane (S)	100 %		80-123	1		10/21/10 21:43	1868-53-7	
4-Bromofluorobenzene (S)	106 %		70-126	1		10/21/10 21:43	460-00-4	
Toluene-d8 (S)	96 %		80-116	1		10/21/10 21:43	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND mg/L		0.10	1		10/15/10 09:15		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	21.4 mg/L		5.0	1		10/22/10 11:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: MMW-P-03D	Lab ID: 5042409003	Collected: 10/13/10 12:37	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/21/10 22:16	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/21/10 22:16	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/21/10 22:16	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/21/10 22:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/21/10 22:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/21/10 22:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/21/10 22:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/21/10 22:16	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/21/10 22:16	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/21/10 22:16	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/21/10 22:16	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/21/10 22:16	127-18-4	
Toluene	ND	ug/L	5.0	1		10/21/10 22:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/21/10 22:16	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/21/10 22:16	79-01-6	
Vinyl chloride	16.2	ug/L	2.0	1		10/21/10 22:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/21/10 22:16	1330-20-7	
Dibromofluoromethane (S)	100	%	80-123	1		10/21/10 22:16	1868-53-7	
4-Bromofluorobenzene (S)	100	%	70-126	1		10/21/10 22:16	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		10/21/10 22:16	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/15/10 09:14		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		10/22/10 13:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: MMW-P-04	Lab ID: 5042409004	Collected: 10/13/10 13:17	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/21/10 23:28	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/21/10 23:28	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/21/10 23:28	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/21/10 23:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/21/10 23:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/21/10 23:28	75-35-4	
cis-1,2-Dichloroethene	10.3	ug/L	5.0	1		10/21/10 23:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/21/10 23:28	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/21/10 23:28	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/21/10 23:28	75-09-2	
Naphthalene	7.0	ug/L	5.0	1		10/21/10 23:28	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/21/10 23:28	127-18-4	
Toluene	ND	ug/L	5.0	1		10/21/10 23:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/21/10 23:28	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/21/10 23:28	79-01-6	
Vinyl chloride	16.8	ug/L	2.0	1		10/21/10 23:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/21/10 23:28	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	1		10/21/10 23:28	1868-53-7	
4-Bromofluorobenzene (S)	101 %		70-126	1		10/21/10 23:28	460-00-4	
Toluene-d8 (S)	96 %		80-116	1		10/21/10 23:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: MMW-P-05	Lab ID: 5042409005	Collected: 10/13/10 13:41	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 00:34	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 00:34	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 00:34	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 00:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 00:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 00:34	75-35-4	
cis-1,2-Dichloroethene	13.6	ug/L	5.0	1		10/22/10 00:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 00:34	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 00:34	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 00:34	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 00:34	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 00:34	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 00:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 00:34	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 00:34	79-01-6	
Vinyl chloride	3.9	ug/L	2.0	1		10/22/10 00:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 00:34	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		10/22/10 00:34	1868-53-7	
4-Bromofluorobenzene (S)	100 %		70-126	1		10/22/10 00:34	460-00-4	
Toluene-d8 (S)	98 %		80-116	1		10/22/10 00:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: MMW-P-09D	Lab ID: 5042409006	Collected: 10/13/10 10:58	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 02:21	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 02:21	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 02:21	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 02:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 02:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 02:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 02:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 02:21	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 02:21	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 02:21	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 02:21	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 02:21	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 02:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 02:21	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 02:21	79-01-6	
Vinyl chloride	70.6	ug/L	2.0	1		10/22/10 02:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 02:21	1330-20-7	
Dibromofluoromethane (S)	97 %		80-123	1		10/22/10 02:21	1868-53-7	
4-Bromofluorobenzene (S)	107 %		70-126	1		10/22/10 02:21	460-00-4	
Toluene-d8 (S)	105 %		80-116	1		10/22/10 02:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: MMW-P-09S	Lab ID: 5042409007	Collected: 10/13/10 10:05	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 02:55	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 02:55	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 02:55	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 02:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 02:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 02:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 02:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 02:55	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 02:55	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 02:55	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 02:55	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 02:55	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 02:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 02:55	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 02:55	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/22/10 02:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 02:55	1330-20-7	
Dibromofluoromethane (S)	99 %		80-123	1		10/22/10 02:55	1868-53-7	
4-Bromofluorobenzene (S)	103 %		70-126	1		10/22/10 02:55	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		10/22/10 02:55	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.10	mg/L	0.10	1		10/15/10 09:13		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	57.4	mg/L	25.0	1		10/22/10 11:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: MW-168D	Lab ID: 5042409008	Collected: 10/13/10 09:38	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 03:29	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 03:29	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 03:29	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 03:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 03:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 03:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 03:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 03:29	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 03:29	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 03:29	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 03:29	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 03:29	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 03:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 03:29	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 03:29	79-01-6	
Vinyl chloride	134	ug/L	2.0	1		10/22/10 03:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 03:29	1330-20-7	
Dibromofluoromethane (S)	105	%	80-123	1		10/22/10 03:29	1868-53-7	
4-Bromofluorobenzene (S)	104	%	70-126	1		10/22/10 03:29	460-00-4	
Toluene-d8 (S)	98	%	80-116	1		10/22/10 03:29	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/15/10 09:12		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	60.8	mg/L	25.0	1		10/22/10 11:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: MMW-C-02	Lab ID: 5042409009	Collected: 10/13/10 11:15	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 04:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 04:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 04:03	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 04:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 04:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 04:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 04:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 04:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 04:03	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 04:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 04:03	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 04:03	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 04:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 04:03	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 04:03	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/22/10 04:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 04:03	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	1		10/22/10 04:03	1868-53-7	
4-Bromofluorobenzene (S)	102 %		70-126	1		10/22/10 04:03	460-00-4	
Toluene-d8 (S)	98 %		80-116	1		10/22/10 04:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

Sample: Dup	Lab ID: 5042409010	Collected: 10/13/10 08:00	Received: 10/14/10 11:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	527	mg/L	1.0	1		10/20/10 13:48		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 04:37	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 04:37	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 04:37	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 04:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 04:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 04:37	75-35-4	
cis-1,2-Dichloroethene	73.3	ug/L	5.0	1		10/22/10 04:37	156-59-2	
trans-1,2-Dichloroethene	9.6	ug/L	5.0	1		10/22/10 04:37	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 04:37	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 04:37	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 04:37	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 04:37	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 04:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 04:37	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 04:37	79-01-6	
Vinyl chloride	533	ug/L	100	50		10/22/10 05:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 04:37	1330-20-7	
Dibromofluoromethane (S)	108	%	80-123	1		10/22/10 04:37	1868-53-7	
4-Bromofluorobenzene (S)	104	%	70-126	1		10/22/10 04:37	460-00-4	
Toluene-d8 (S)	98	%	80-116	1		10/22/10 04:37	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/15/10 09:09		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	19.1	mg/L	5.0	1		10/22/10 11:05	14808-79-8	

Date: 10/25/2010 01:29 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046

Pace Project No.: 5042409

QC Batch:	MSV/27645	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5042409001, 5042409002, 5042409003, 5042409004, 5042409005, 5042409006, 5042409007, 5042409008, 5042409009, 5042409010		

METHOD BLANK:	497863	Matrix: Water
Associated Lab Samples:	5042409001, 5042409002, 5042409003, 5042409004, 5042409005, 5042409006, 5042409007, 5042409008, 5042409009, 5042409010	

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/21/10 20:33	
1,1-Dichloroethane	ug/L	ND	5.0	10/21/10 20:33	
1,1-Dichloroethene	ug/L	ND	5.0	10/21/10 20:33	
1,2-Dichloroethane	ug/L	ND	5.0	10/21/10 20:33	
Benzene	ug/L	ND	5.0	10/21/10 20:33	
Carbon tetrachloride	ug/L	ND	5.0	10/21/10 20:33	
Chloroform	ug/L	ND	5.0	10/21/10 20:33	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/21/10 20:33	
Ethylbenzene	ug/L	ND	5.0	10/21/10 20:33	
Methylene chloride	ug/L	ND	5.0	10/21/10 20:33	
Naphthalene	ug/L	ND	5.0	10/21/10 20:33	
Tetrachloroethene	ug/L	ND	5.0	10/21/10 20:33	
Toluene	ug/L	ND	5.0	10/21/10 20:33	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/21/10 20:33	
Trichloroethene	ug/L	ND	5.0	10/21/10 20:33	
Vinyl chloride	ug/L	ND	2.0	10/21/10 20:33	
Xylene (Total)	ug/L	ND	10.0	10/21/10 20:33	
4-Bromofluorobenzene (S)	%	106	70-126	10/21/10 20:33	
Dibromofluoromethane (S)	%	100	80-123	10/21/10 20:33	
Toluene-d8 (S)	%	102	80-116	10/21/10 20:33	

LABORATORY CONTROL SAMPLE: 497864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.0	96	69-136	
1,1-Dichloroethane	ug/L	50	49.7	99	67-133	
1,1-Dichloroethene	ug/L	50	50.6	101	63-128	
1,2-Dichloroethane	ug/L	50	49.9	100	69-139	
Benzene	ug/L	50	55.3	111	78-127	
Carbon tetrachloride	ug/L	50	45.9	92	62-143	
Chloroform	ug/L	50	48.3	97	74-131	
cis-1,2-Dichloroethene	ug/L	50	53.1	106	74-128	
Ethylbenzene	ug/L	50	54.2	108	81-126	
Methylene chloride	ug/L	50	48.3	97	32-164	
Naphthalene	ug/L	50	55.4	111	61-135	
Tetrachloroethene	ug/L	50	48.5	97	60-119	
Toluene	ug/L	50	48.6	97	75-129	
trans-1,2-Dichloroethene	ug/L	50	49.1	98	71-126	
Trichloroethene	ug/L	50	49.4	99	74-130	
Vinyl chloride	ug/L	50	50.5	101	55-141	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046

Pace Project No.: 5042409

LABORATORY CONTROL SAMPLE: 497864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	151	101	76-132	
4-Bromofluorobenzene (S)	%			98	70-126	
Dibromofluoromethane (S)	%			95	80-123	
Toluene-d8 (S)	%			97	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 497865 497866

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		5042409005	Result	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	ND	50	50	42.8	52.0	86	104	64-143	19	20
1,1-Dichloroethane	ug/L	ND	50	50	48.6	55.7	97	111	68-139	14	20
1,1-Dichloroethene	ug/L	ND	50	50	49.7	57.9	99	116	55-140	15	20
1,2-Dichloroethane	ug/L	ND	50	50	50.5	54.5	101	109	63-148	8	20
Benzene	ug/L	ND	50	50	52.9	53.4	106	107	63-141	.9	20
Carbon tetrachloride	ug/L	ND	50	50	42.6	48.1	85	96	54-145	12	20
Chloroform	ug/L	ND	50	50	44.9	52.0	90	104	67-134	15	20
cis-1,2-Dichloroethene	ug/L	13.6	50	50	60.6	73.9	94	121	65-132	20	20
Ethylbenzene	ug/L	ND	50	50	37.1	48.7	74	97	44-151	27	20 R1
Methylene chloride	ug/L	ND	50	50	49.8	54.7	100	109	46-154	9	20
Naphthalene	ug/L	ND	50	50	43.9	55.9	88	112	44-138	24	20 R1
Tetrachloroethene	ug/L	ND	50	50	34.4	45.2	69	90	25-146	27	20 R1
Toluene	ug/L	ND	50	50	40.2	49.4	80	98	59-142	21	20 R1
trans-1,2-Dichloroethene	ug/L	ND	50	50	46.1	55.0	92	110	60-137	18	20
Trichloroethene	ug/L	ND	50	50	40.5	52.0	81	104	61-137	25	20 R1
Vinyl chloride	ug/L	3.9	50	50	52.1	60.3	96	113	51-144	15	20
Xylene (Total)	ug/L	ND	150	150	107	148	71	99	44-152	32	20 RS
4-Bromofluorobenzene (S)	%						93	102	70-126		20
Dibromofluoromethane (S)	%						96	107	80-123		20
Toluene-d8 (S)	%						98	103	80-116		20

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046

Pace Project No.: 5042409

QC Batch: WETA/5637 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 5042409002, 5042409003, 5042409007, 5042409008, 5042409010

METHOD BLANK: 495121 Matrix: Water

Associated Lab Samples: 5042409002, 5042409003, 5042409007, 5042409008, 5042409010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	10/15/10 09:07	

LABORATORY CONTROL SAMPLE: 495122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	1.9	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 495123 495124

Parameter	Units	5042409010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.7	1.6	82	80	90-110	2	20	M3

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046

Pace Project No.: 5042409

QC Batch: WETA/5666 Analysis Method: ASTM D516-90,02

QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water

Associated Lab Samples: 5042409002, 5042409003, 5042409007, 5042409008, 5042409010

METHOD BLANK: 497803 Matrix: Water

Associated Lab Samples: 5042409002, 5042409003, 5042409007, 5042409008, 5042409010

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Sulfate	mg/L	ND	5.0	10/22/10 11:05	

LABORATORY CONTROL SAMPLE: 497804

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Sulfate	mg/L	20	20.2	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 497805 497806

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		5042409002	Spike	Conc.	Result	Result	% Rec	% Rec	% Rec	RPD	RPD	RPD	Qual
Sulfate	mg/L	21.4	20	20	42.0	41.9	103	102	75-125	.2	20		

MATRIX SPIKE SAMPLE: 497931

Parameter	Units	5042517002	Spike	MS	MS	% Rec	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	RPD	
Sulfate	mg/L	5.9	20	31.1	126	75-125	M0	

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QUALIFIERS

Project: Michigan Plaza M01046

Pace Project No.: 5042409

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
- R1 RPD value was outside control limits.
- RS The RPD value in one of the constituent analytes was outside the control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M01046
Pace Project No.: 5042409

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5042409002	MMW-P-03S	SM 2340B	ICP/5961		
5042409010	Dup	SM 2340B	ICP/5961		
5042409001	MMW-P-02	EPA 8260	MSV/27645		
5042409002	MMW-P-03S	EPA 8260	MSV/27645		
5042409003	MMW-P-03D	EPA 8260	MSV/27645		
5042409004	MMW-P-04	EPA 8260	MSV/27645		
5042409005	MMW-P-05	EPA 8260	MSV/27645		
5042409006	MMW-P-09D	EPA 8260	MSV/27645		
5042409007	MMW-P-09S	EPA 8260	MSV/27645		
5042409008	MW-168D	EPA 8260	MSV/27645		
5042409009	MMW-C-02	EPA 8260	MSV/27645		
5042409010	Dup	EPA 8260	MSV/27645		
5042409002	MMW-P-03S	EPA 353.2	WETA/5637		
5042409003	MMW-P-03D	EPA 353.2	WETA/5637		
5042409007	MMW-P-09S	EPA 353.2	WETA/5637		
5042409008	MW-168D	EPA 353.2	WETA/5637		
5042409010	Dup	EPA 353.2	WETA/5637		
5042409002	MMW-P-03S	ASTM D516-90,02	WETA/5666		
5042409003	MMW-P-03D	ASTM D516-90,02	WETA/5666		
5042409007	MMW-P-09S	ASTM D516-90,02	WETA/5666		
5042409008	MW-168D	ASTM D516-90,02	WETA/5666		
5042409010	Dup	ASTM D516-90,02	WETA/5666		



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

"Important Note: By signing this form you are accepting Face's NET 30 day payment terms and agreeing to late charges of 5% per month for any late payment.

Sample Condition Upon Receipt

Pace Analytical Client Name: Mundell

Project # 5042409

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other Ram

Thermometer Used 1 2 3 4 6 A B C D E

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 18°C

Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 10/14/10 B

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. <u>Nitrates</u> <u>B</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>Time on chain for P-035 & 1259 on container 1249 - B</u>
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10. <u>Vial of MW-168 D = headspace - B</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: J. Webb Date/Time: 10/14/10

Comments/ Resolution:

Use 12:59 as time for MMW-P-035.

Project Manager Review:

Date: 10/14/10

Sample Container Count

Pace Analytical
www.paceanalytical.com

CLIENT: Mundell
COC PAGE 1
COC ID# 1561381

Project # 5042409

Sample Line

Sample Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3											
2	3											
3	3											
4	3											
5	3											
6	3											
7	3											
8	3											
9	3											
10	3											
11												
12												

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	BP1S	1 liter H2SO4 plastic	BP1U	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1T	1 liter Thiosulfate amber gl	BP1U	1 liter unpreserved plastic	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	BP1U	1 liter Thio amber vial	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1U	1 liter unpreserved amber vial	BP1U	40mL unpreserved amber vial	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP1U	500mL NaOH plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	BP2A	500mL NaOH, Asc Acid plastic	JG FU	4oz unpreserved amber wide
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP1U	500mL NaOH plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	BP2A	500mL NaOH, Asc Acid plastic	JG FU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP1U	500mL NaOH plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	BP2A	500mL NaOH, Asc Acid plastic	JG FU	4oz unpreserved amber wide
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP1U	250mL NaOH plastic	BP2A	250mL NaOH, Asc Acid plastic	BP2Z	250mL NaOH, Zn Ac	BP2A	250mL NaOH, Asc Acid plastic	JG FU	4oz unpreserved amber wide
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP1U	250mL NaOH plastic	BP2A	250mL NaOH, Asc Acid plastic	BP2Z	250mL NaOH, Zn Ac	BP2A	250mL NaOH, Asc Acid plastic	JG FU	4oz unpreserved amber wide
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP1U	250mL NaOH plastic	BP2A	250mL NaOH, Asc Acid plastic	BP2Z	250mL NaOH, Zn Ac	BP2A	250mL NaOH, Asc Acid plastic	JG FU	4oz unpreserved amber wide
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	BP1U	1 liter Na Thiosulfate clear gla	BP2A	1 liter Na Thiosulfate clear gla	BP2Z	1 liter Na Thiosulfate clear gla	BP2A	1 liter Na Thiosulfate clear gla	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	BP1U	1 liter unpreserved glass	BP2A	1 liter unpreserved glass	BP2Z	1 liter unpreserved glass	BP2A	1 liter unpreserved glass	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	BP1U	1 liter NaOH, Asc Acid plastic	BP2A	1 liter NaOH, Asc Acid plastic	BP2Z	1 liter NaOH, Asc Acid plastic	BP2A	1 liter NaOH, Asc Acid plastic	ZPLC	Ziploc Bag

October 27, 2010

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza/M01046
Pace Project No.: 5042359

Dear Ms. Webb:

Enclosed are the analytical results for sample(s) received by the laboratory on October 13, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Michigan Plaza/M01046
 Pace Project No.: 5042359

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5042359001	MMW-1S	Water	10/12/10 10:39	10/13/10 11:38
5042359002	MMW-8S	Water	10/12/10 13:15	10/13/10 11:38
5042359003	MMW-9S	Water	10/12/10 10:00	10/13/10 11:38
5042359004	MMW-10S	Water	10/12/10 10:24	10/13/10 11:38
5042359005	MMW-11S	Water	10/12/10 12:45	10/13/10 11:38
5042359006	MMW-11D	Water	10/12/10 12:59	10/13/10 11:38
5042359007	MMW-12S	Water	10/12/10 11:00	10/13/10 11:38
5042359008	MMW-13D	Water	10/12/10 12:27	10/13/10 11:38
5042359009	MMW-14D	Water	10/12/10 11:19	10/13/10 11:38

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza/M01046
Pace Project No.: 5042359

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5042359001	MMW-1S	EPA 8260	ALA	20
		EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
5042359002	MMW-8S	EPA 8260	ALA	20
5042359003	MMW-9S	SM 2340B	FRW	1
		EPA 8260	ALA	20
		EPA 353.2	ILP	1
5042359004	MMW-10S	ASTM D516-90,02	TPD	1
		EPA 8260	ALA	20
		EPA 8260	ALA	20
5042359005	MMW-11S	EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
		EPA 8260	ALA	20
5042359006	MMW-11D	EPA 8260	ALA	20
5042359007	MMW-12S	EPA 8260	ALA	20
5042359008	MMW-13D	EPA 8260	ALA	20
5042359009	MMW-14D	EPA 8260	ALA	20

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ANALYTICAL RESULTS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

Sample: MMW-1S	Lab ID: 5042359001	Collected: 10/12/10 10:39	Received: 10/13/10 11:38	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 02:34	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 02:34	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 02:34	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 02:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 02:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 02:34	75-35-4	
cis-1,2-Dichloroethene	208	ug/L	5.0	1		10/22/10 02:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 02:34	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 02:34	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 02:34	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 02:34	91-20-3	
Tetrachloroethene	89.4	ug/L	5.0	1		10/22/10 02:34	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 02:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 02:34	71-55-6	
Trichloroethene	21.3	ug/L	5.0	1		10/22/10 02:34	79-01-6	
Vinyl chloride	32.2	ug/L	2.0	1		10/22/10 02:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 02:34	1330-20-7	
Dibromofluoromethane (S)	98 %		80-123	1		10/22/10 02:34	1868-53-7	
4-Bromofluorobenzene (S)	98 %		70-126	1		10/22/10 02:34	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		10/22/10 02:34	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/14/10 08:34		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	60.0	mg/L	25.0	1		10/14/10 14:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

Sample: MMW-8S	Lab ID: 5042359002	Collected: 10/12/10 13:15	Received: 10/13/10 11:38	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 03:38	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 03:38	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 03:38	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 03:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 03:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 03:38	75-35-4	
cis-1,2-Dichloroethene	5.4	ug/L	5.0	1		10/22/10 03:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 03:38	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 03:38	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 03:38	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 03:38	91-20-3	
Tetrachloroethene	8.4	ug/L	5.0	1		10/22/10 03:38	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 03:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 03:38	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 03:38	79-01-6	
Vinyl chloride	158	ug/L	2.0	1		10/22/10 03:38	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 03:38	1330-20-7	
Dibromofluoromethane (S)	99 %		80-123	1		10/22/10 03:38	1868-53-7	
4-Bromofluorobenzene (S)	100 %		70-126	1		10/22/10 03:38	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		10/22/10 03:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

Sample: MMW-9S	Lab ID: 5042359003	Collected: 10/12/10 10:00	Received: 10/13/10 11:38	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	719	mg/L	1.0	1		10/20/10 13:37		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	50.0	10		10/22/10 05:14	71-43-2	
Carbon tetrachloride	ND	ug/L	50.0	10		10/22/10 05:14	56-23-5	
Chloroform	ND	ug/L	50.0	10		10/22/10 05:14	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		10/22/10 05:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	10		10/22/10 05:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		10/22/10 05:14	75-35-4	
cis-1,2-Dichloroethene	2430	ug/L	50.0	10		10/22/10 05:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		10/22/10 05:14	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		10/22/10 05:14	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		10/22/10 05:14	75-09-2	
Naphthalene	ND	ug/L	50.0	10		10/22/10 05:14	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		10/22/10 05:14	127-18-4	
Toluene	ND	ug/L	50.0	10		10/22/10 05:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		10/22/10 05:14	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		10/22/10 05:14	79-01-6	
Vinyl chloride	1270	ug/L	20.0	10		10/22/10 05:14	75-01-4	
Xylene (Total)	ND	ug/L	100	10		10/22/10 05:14	1330-20-7	
Dibromofluoromethane (S)	99 %		80-123	10		10/22/10 05:14	1868-53-7	D4
4-Bromofluorobenzene (S)	101 %		70-126	10		10/22/10 05:14	460-00-4	
Toluene-d8 (S)	101 %		80-116	10		10/22/10 05:14	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/14/10 08:29		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	122	mg/L	50.0	1		10/14/10 14:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

Sample: MMW-10S	Lab ID: 5042359004	Collected: 10/12/10 10:24	Received: 10/13/10 11:38	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 04:10	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 04:10	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 04:10	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 04:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 04:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 04:10	75-35-4	
cis-1,2-Dichloroethene	100	ug/L	5.0	1		10/22/10 04:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/22/10 04:10	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 04:10	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 04:10	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 04:10	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 04:10	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 04:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 04:10	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 04:10	79-01-6	
Vinyl chloride	96.1	ug/L	2.0	1		10/22/10 04:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 04:10	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	1		10/22/10 04:10	1868-53-7	
4-Bromofluorobenzene (S)	101 %		70-126	1		10/22/10 04:10	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		10/22/10 04:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

Sample: MMW-11S	Lab ID: 5042359005	Collected: 10/12/10 12:45	Received: 10/13/10 11:38	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 04:42	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 04:42	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 04:42	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 04:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 04:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 04:42	75-35-4	
cis-1,2-Dichloroethene	85.1	ug/L	5.0	1		10/22/10 04:42	156-59-2	
trans-1,2-Dichloroethene	5.6	ug/L	5.0	1		10/22/10 04:42	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 04:42	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 04:42	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 04:42	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 04:42	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 04:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 04:42	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 04:42	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/22/10 04:42	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 04:42	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	1		10/22/10 04:42	1868-53-7	
4-Bromofluorobenzene (S)	99 %		70-126	1		10/22/10 04:42	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		10/22/10 04:42	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.48	mg/L	0.10	1		10/14/10 08:40		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	108	mg/L	25.0	1		10/14/10 14:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

Sample: MMW-11D	Lab ID: 5042359006	Collected: 10/12/10 12:59	Received: 10/13/10 11:38	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/25/10 15:06	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/25/10 15:06	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/25/10 15:06	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/25/10 15:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/25/10 15:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/25/10 15:06	75-35-4	
cis-1,2-Dichloroethene	162	ug/L	5.0	1		10/25/10 15:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/25/10 15:06	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/25/10 15:06	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/25/10 15:06	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/25/10 15:06	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/25/10 15:06	127-18-4	
Toluene	ND	ug/L	5.0	1		10/25/10 15:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/25/10 15:06	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/25/10 15:06	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/25/10 15:06	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/25/10 15:06	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	1		10/25/10 15:06	1868-53-7	
4-Bromofluorobenzene (S)	95 %		70-126	1		10/25/10 15:06	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		10/25/10 15:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

Sample: MMW-12S	Lab ID: 5042359007	Collected: 10/12/10 11:00	Received: 10/13/10 11:38	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/25/10 16:11	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/25/10 16:11	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/25/10 16:11	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/25/10 16:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/25/10 16:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/25/10 16:11	75-35-4	
cis-1,2-Dichloroethene	16.8	ug/L	5.0	1		10/25/10 16:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/25/10 16:11	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/25/10 16:11	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/25/10 16:11	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/25/10 16:11	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/25/10 16:11	127-18-4	
Toluene	ND	ug/L	5.0	1		10/25/10 16:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/25/10 16:11	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/25/10 16:11	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/25/10 16:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/25/10 16:11	1330-20-7	
Dibromofluoromethane (S)	110 %		80-123	1		10/25/10 16:11	1868-53-7	
4-Bromofluorobenzene (S)	99 %		70-126	1		10/25/10 16:11	460-00-4	
Toluene-d8 (S)	97 %		80-116	1		10/25/10 16:11	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

Sample: MMW-13D	Lab ID: 5042359008	Collected: 10/12/10 12:27	Received: 10/13/10 11:38	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/21/10 03:01	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/21/10 03:01	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/21/10 03:01	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/21/10 03:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/21/10 03:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/21/10 03:01	75-35-4	
cis-1,2-Dichloroethene	1200	ug/L	50.0	10		10/21/10 03:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/21/10 03:01	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/21/10 03:01	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/21/10 03:01	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/21/10 03:01	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/21/10 03:01	127-18-4	
Toluene	ND	ug/L	5.0	1		10/21/10 03:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/21/10 03:01	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/21/10 03:01	79-01-6	
Vinyl chloride	187	ug/L	2.0	1		10/21/10 03:01	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/21/10 03:01	1330-20-7	
Dibromofluoromethane (S)	118 %		80-123	1		10/21/10 03:01	1868-53-7	
4-Bromofluorobenzene (S)	103 %		70-126	1		10/21/10 03:01	460-00-4	
Toluene-d8 (S)	92 %		80-116	1		10/21/10 03:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

Sample: MMW-14D	Lab ID: 5042359009	Collected: 10/12/10 11:19	Received: 10/13/10 11:38	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		10/22/10 13:19	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/22/10 13:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/22/10 13:19	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/22/10 13:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/22/10 13:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/22/10 13:19	75-35-4	
cis-1,2-Dichloroethene	775	ug/L	50.0	10		10/22/10 13:51	156-59-2	
trans-1,2-Dichloroethene	8.4	ug/L	5.0	1		10/22/10 13:19	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/22/10 13:19	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/22/10 13:19	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/22/10 13:19	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/22/10 13:19	127-18-4	
Toluene	ND	ug/L	5.0	1		10/22/10 13:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/22/10 13:19	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/22/10 13:19	79-01-6	
Vinyl chloride	83.3	ug/L	2.0	1		10/22/10 13:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/22/10 13:19	1330-20-7	
Dibromofluoromethane (S)	111	%	80-123	1		10/22/10 13:19	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		10/22/10 13:19	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		10/22/10 13:19	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

QC Batch: MSV/27631

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 5042359008

METHOD BLANK: 497644

Matrix: Water

Associated Lab Samples: 5042359008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/21/10 00:21	
1,1-Dichloroethane	ug/L	ND	5.0	10/21/10 00:21	
1,1-Dichloroethene	ug/L	ND	5.0	10/21/10 00:21	
1,2-Dichloroethane	ug/L	ND	5.0	10/21/10 00:21	
Benzene	ug/L	ND	5.0	10/21/10 00:21	
Carbon tetrachloride	ug/L	ND	5.0	10/21/10 00:21	
Chloroform	ug/L	ND	5.0	10/21/10 00:21	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/21/10 00:21	
Ethylbenzene	ug/L	ND	5.0	10/21/10 00:21	
Methylene chloride	ug/L	ND	5.0	10/21/10 00:21	
Naphthalene	ug/L	ND	5.0	10/21/10 00:21	
Tetrachloroethene	ug/L	ND	5.0	10/21/10 00:21	
Toluene	ug/L	ND	5.0	10/21/10 00:21	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/21/10 00:21	
Trichloroethene	ug/L	ND	5.0	10/21/10 00:21	
Vinyl chloride	ug/L	ND	2.0	10/21/10 00:21	
Xylene (Total)	ug/L	ND	10.0	10/21/10 00:21	
4-Bromofluorobenzene (S)	%	102	70-126	10/21/10 00:21	
Dibromofluoromethane (S)	%	135	80-123	10/21/10 00:21	1d,S3
Toluene-d8 (S)	%	85	80-116	10/21/10 00:21	

LABORATORY CONTROL SAMPLE: 497645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.7	105	69-136	
1,1-Dichloroethane	ug/L	50	59.0	118	67-133	
1,1-Dichloroethene	ug/L	50	60.0	120	63-128	
1,2-Dichloroethane	ug/L	50	58.0	116	69-139	
Benzene	ug/L	50	58.7	117	78-127	
Carbon tetrachloride	ug/L	50	50.5	101	62-143	
Chloroform	ug/L	50	57.3	115	74-131	
cis-1,2-Dichloroethene	ug/L	50	61.2	122	74-128	
Ethylbenzene	ug/L	50	46.8	94	81-126	
Methylene chloride	ug/L	50	53.8	108	32-164	
Naphthalene	ug/L	50	43.8	88	61-135	
Tetrachloroethene	ug/L	50	39.1	78	60-119	
Toluene	ug/L	50	45.3	91	75-129	
trans-1,2-Dichloroethene	ug/L	50	59.4	119	71-126	
Trichloroethene	ug/L	50	58.9	118	74-130	
Vinyl chloride	ug/L	50	46.0	92	55-141	
Xylene (Total)	ug/L	150	143	96	76-132	

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QUALITY CONTROL DATA

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

LABORATORY CONTROL SAMPLE: 497645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			106	70-126	
Dibromofluoromethane (S)	%			114	80-123	
Toluene-d8 (S)	%			89	80-116	

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QUALITY CONTROL DATA

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

QC Batch: MSV/27667 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 5042359001, 5042359002, 5042359003, 5042359004, 5042359005

METHOD BLANK: 498103 Matrix: Water

Associated Lab Samples: 5042359001, 5042359002, 5042359003, 5042359004, 5042359005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/21/10 21:46	
1,1-Dichloroethane	ug/L	ND	5.0	10/21/10 21:46	
1,1-Dichloroethene	ug/L	ND	5.0	10/21/10 21:46	
1,2-Dichloroethane	ug/L	ND	5.0	10/21/10 21:46	
Benzene	ug/L	ND	5.0	10/21/10 21:46	
Carbon tetrachloride	ug/L	ND	5.0	10/21/10 21:46	
Chloroform	ug/L	ND	5.0	10/21/10 21:46	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/21/10 21:46	
Ethylbenzene	ug/L	ND	5.0	10/21/10 21:46	
Methylene chloride	ug/L	ND	5.0	10/21/10 21:46	
Naphthalene	ug/L	ND	5.0	10/21/10 21:46	
Tetrachloroethene	ug/L	ND	5.0	10/21/10 21:46	
Toluene	ug/L	ND	5.0	10/21/10 21:46	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/21/10 21:46	
Trichloroethene	ug/L	ND	5.0	10/21/10 21:46	
Vinyl chloride	ug/L	ND	2.0	10/21/10 21:46	
Xylene (Total)	ug/L	ND	10.0	10/21/10 21:46	
4-Bromofluorobenzene (S)	%	97	70-126	10/21/10 21:46	
Dibromofluoromethane (S)	%	99	80-123	10/21/10 21:46	
Toluene-d8 (S)	%	100	80-116	10/21/10 21:46	

LABORATORY CONTROL SAMPLE: 498104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.7	109	69-136	
1,1-Dichloroethane	ug/L	50	54.1	108	67-133	
1,1-Dichloroethene	ug/L	50	59.0	118	63-128	
1,2-Dichloroethane	ug/L	50	50.1	100	69-139	
Benzene	ug/L	50	52.4	105	78-127	
Carbon tetrachloride	ug/L	50	52.1	104	62-143	
Chloroform	ug/L	50	50.2	100	74-131	
cis-1,2-Dichloroethene	ug/L	50	55.5	111	74-128	
Ethylbenzene	ug/L	50	54.4	109	81-126	
Methylene chloride	ug/L	50	52.7	105	32-164	
Naphthalene	ug/L	50	50.3	101	61-135	
Tetrachloroethene	ug/L	50	51.7	103	60-119	
Toluene	ug/L	50	52.5	105	75-129	
trans-1,2-Dichloroethene	ug/L	50	53.9	108	71-126	
Trichloroethene	ug/L	50	51.2	102	74-130	
Vinyl chloride	ug/L	50	51.6	103	55-141	
Xylene (Total)	ug/L	150	164	109	76-132	

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QUALITY CONTROL DATA

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

LABORATORY CONTROL SAMPLE: 498104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			98	80-123	
Toluene-d8 (S)	%			96	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 498105 498106

Parameter	Units	5042359003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	500	500	401	228	80	46	64-143	55	20	
1,1-Dichloroethane	ug/L	ND	500	500	388	222	78	44	68-139	55	20	
1,1-Dichloroethene	ug/L	ND	500	500	438	255	88	51	55-140	53	20	
1,2-Dichloroethane	ug/L	ND	500	500	360	204	72	41	63-148	55	20	
Benzene	ug/L	ND	500	500	398	222	80	44	63-141	57	20	
Carbon tetrachloride	ug/L	ND	500	500	366	210	73	42	54-145	54	20	
Chloroform	ug/L	ND	500	500	355	204	71	41	67-134	54	20	
cis-1,2-Dichloroethene	ug/L	2430	500	500	2860	1920	85	-103	65-132	39	20	
Ethylbenzene	ug/L	ND	500	500	407	213	81	43	44-151	63	20	
Methylene chloride	ug/L	ND	500	500	399	224	76	41	46-154	56	20	
Naphthalene	ug/L	ND	500	500	356	300	71	60	44-138	17	20	
Tetrachloroethene	ug/L	ND	500	500	410	203	82	41	25-146	68	20	
Toluene	ug/L	ND	500	500	397	210	79	42	59-142	62	20	
trans-1,2-Dichloroethene	ug/L	ND	500	500	468	272	84	44	60-137	53	20	
Trichloroethene	ug/L	ND	500	500	376	213	75	43	61-137	55	20	
Vinyl chloride	ug/L	1270	500	500	1700	1140	85	-25	51-144	39	20	
Xylene (Total)	ug/L	ND	1500	1500	1210	609	81	41	44-152	66	20	
4-Bromofluorobenzene (S)	%						100	97	70-126		20	
Dibromofluoromethane (S)	%						97	102	80-123		20	2d
Toluene-d8 (S)	%						102	98	80-116		20	

QUALITY CONTROL DATA

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

QC Batch:	MSV/27696	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5042359009		

METHOD BLANK: 498772 Matrix: Water

Associated Lab Samples: 5042359009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/22/10 12:47	
1,1-Dichloroethane	ug/L	ND	5.0	10/22/10 12:47	
1,1-Dichloroethene	ug/L	ND	5.0	10/22/10 12:47	
1,2-Dichloroethane	ug/L	ND	5.0	10/22/10 12:47	
Benzene	ug/L	ND	5.0	10/22/10 12:47	
Carbon tetrachloride	ug/L	ND	5.0	10/22/10 12:47	
Chloroform	ug/L	ND	5.0	10/22/10 12:47	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/22/10 12:47	
Ethylbenzene	ug/L	ND	5.0	10/22/10 12:47	
Methylene chloride	ug/L	ND	5.0	10/22/10 12:47	
Naphthalene	ug/L	ND	5.0	10/22/10 12:47	
Tetrachloroethene	ug/L	ND	5.0	10/22/10 12:47	
Toluene	ug/L	ND	5.0	10/22/10 12:47	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/22/10 12:47	
Trichloroethene	ug/L	ND	5.0	10/22/10 12:47	
Vinyl chloride	ug/L	ND	2.0	10/22/10 12:47	
Xylene (Total)	ug/L	ND	10.0	10/22/10 12:47	
4-Bromofluorobenzene (S)	%	99	70-126	10/22/10 12:47	
Dibromofluoromethane (S)	%	108	80-123	10/22/10 12:47	
Toluene-d8 (S)	%	102	80-116	10/22/10 12:47	

LABORATORY CONTROL SAMPLE: 498773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.8	102	69-136	
1,1-Dichloroethane	ug/L	50	48.6	97	67-133	
1,1-Dichloroethene	ug/L	50	51.4	103	63-128	
1,2-Dichloroethane	ug/L	50	46.8	94	69-139	
Benzene	ug/L	50	50.5	101	78-127	
Carbon tetrachloride	ug/L	50	54.9	110	62-143	
Chloroform	ug/L	50	46.7	93	74-131	
cis-1,2-Dichloroethene	ug/L	50	51.1	102	74-128	
Ethylbenzene	ug/L	50	50.9	102	81-126	
Methylene chloride	ug/L	50	49.2	98	32-164	
Naphthalene	ug/L	50	43.8	88	61-135	
Tetrachloroethene	ug/L	50	47.6	95	60-119	
Toluene	ug/L	50	50.0	100	75-129	
trans-1,2-Dichloroethene	ug/L	50	54.0	108	71-126	
Trichloroethene	ug/L	50	48.7	97	74-130	
Vinyl chloride	ug/L	50	50.5	101	55-141	
Xylene (Total)	ug/L	150	158	105	76-132	

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QUALITY CONTROL DATA

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

LABORATORY CONTROL SAMPLE: 498773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			100	80-123	
Toluene-d8 (S)	%			98	80-116	

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QUALITY CONTROL DATA

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

QC Batch:	MSV/27732	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5042359006, 5042359007		

METHOD BLANK: 499110 Matrix: Water

Associated Lab Samples: 5042359006, 5042359007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/25/10 13:30	
1,1-Dichloroethane	ug/L	ND	5.0	10/25/10 13:30	
1,1-Dichloroethene	ug/L	ND	5.0	10/25/10 13:30	
1,2-Dichloroethane	ug/L	ND	5.0	10/25/10 13:30	
Benzene	ug/L	ND	5.0	10/25/10 13:30	
Carbon tetrachloride	ug/L	ND	5.0	10/25/10 13:30	
Chloroform	ug/L	ND	5.0	10/25/10 13:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/25/10 13:30	
Ethylbenzene	ug/L	ND	5.0	10/25/10 13:30	
Methylene chloride	ug/L	ND	5.0	10/25/10 13:30	
Naphthalene	ug/L	ND	5.0	10/25/10 13:30	
Tetrachloroethene	ug/L	ND	5.0	10/25/10 13:30	
Toluene	ug/L	ND	5.0	10/25/10 13:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/25/10 13:30	
Trichloroethene	ug/L	ND	5.0	10/25/10 13:30	
Vinyl chloride	ug/L	ND	2.0	10/25/10 13:30	
Xylene (Total)	ug/L	ND	10.0	10/25/10 13:30	
4-Bromofluorobenzene (S)	%	100	70-126	10/25/10 13:30	
Dibromofluoromethane (S)	%	108	80-123	10/25/10 13:30	
Toluene-d8 (S)	%	101	80-116	10/25/10 13:30	

LABORATORY CONTROL SAMPLE: 499111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	69-136	
1,1-Dichloroethane	ug/L	50	55.1	110	67-133	
1,1-Dichloroethene	ug/L	50	55.3	111	63-128	
1,2-Dichloroethane	ug/L	50	51.0	102	69-139	
Benzene	ug/L	50	57.0	114	78-127	
Carbon tetrachloride	ug/L	50	56.0	112	62-143	
Chloroform	ug/L	50	51.4	103	74-131	
cis-1,2-Dichloroethene	ug/L	50	60.0	120	74-128	
Ethylbenzene	ug/L	50	56.1	112	81-126	
Methylene chloride	ug/L	50	56.0	112	32-164	
Naphthalene	ug/L	50	47.3	95	61-135	
Tetrachloroethene	ug/L	50	57.1	114	60-119	
Toluene	ug/L	50	58.0	116	75-129	
trans-1,2-Dichloroethene	ug/L	50	61.4	123	71-126	
Trichloroethene	ug/L	50	57.1	114	74-130	
Vinyl chloride	ug/L	50	51.0	102	55-141	
Xylene (Total)	ug/L	150	173	116	76-132	

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QUALITY CONTROL DATA

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

LABORATORY CONTROL SAMPLE: 499111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			98	70-126	
Dibromofluoromethane (S)	%			99	80-123	
Toluene-d8 (S)	%			99	80-116	

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QUALITY CONTROL DATA

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

QC Batch: WETA/5633 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 5042359001, 5042359003, 5042359005

METHOD BLANK: 494519 Matrix: Water

Associated Lab Samples: 5042359001, 5042359003, 5042359005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	10/14/10 08:24	

LABORATORY CONTROL SAMPLE: 494520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	1.9	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 494521 494522

Parameter	Units	5042359003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.7	1.7	85	84	90-110	1	20	M3

MATRIX SPIKE SAMPLE: 494523

Parameter	Units	5042333008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	1.9	89	90-110	M0

QUALITY CONTROL DATA

Project: Michigan Plaza/M01046
Pace Project No.: 5042359

QC Batch: WETA/5636 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5042359001, 5042359003, 5042359005

METHOD BLANK: 494864 Matrix: Water

Associated Lab Samples: 5042359001, 5042359003, 5042359005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	10/14/10 14:20	

LABORATORY CONTROL SAMPLE: 494865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.3	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 494866 494867

Parameter	Units	5042293003	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Sulfate	mg/L	ND	20	20	22.7	22.8	96	97	75-125	.7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 494868 494869

Parameter	Units	5042359003		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Max
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Sulfate	mg/l	122	200	200	347	339	112	108	75-125	2	20	



QUALIFIERS

Project: Michigan Plaza/M01046

Pace Project No.: 5042359

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

- 1d All associated samples have surrogate within limits. aa 10/21/10
- 2d Several compounds are outside of acceptance limits for percent recovery and RPD value; refer to batch QC for system control. aa 10/22/10
- D4 Sample was diluted due to the presence of high levels of target analytes.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
- S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.
Results unaffected by high bias.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza/M01046
 Pace Project No.: 5042359

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5042359003	MMW-9S	SM 2340B		ICP/5961	
5042359001	MMW-1S	EPA 8260		MSV/27667	
5042359002	MMW-8S	EPA 8260		MSV/27667	
5042359003	MMW-9S	EPA 8260		MSV/27667	
5042359004	MMW-10S	EPA 8260		MSV/27667	
5042359005	MMW-11S	EPA 8260		MSV/27667	
5042359006	MMW-11D	EPA 8260		MSV/27732	
5042359007	MMW-12S	EPA 8260		MSV/27732	
5042359008	MMW-13D	EPA 8260		MSV/27631	
5042359009	MMW-14D	EPA 8260		MSV/27696	
5042359001	MMW-1S	EPA 353.2		WETA/5633	
5042359003	MMW-9S	EPA 353.2		WETA/5633	
5042359005	MMW-11S	EPA 353.2		WETA/5633	
5042359001	MMW-1S	ASTM D516-90,02		WETA/5636	
5042359003	MMW-9S	ASTM D516-90,02		WETA/5636	
5042359005	MMW-11S	ASTM D516-90,02		WETA/5636	

Date: 10/27/2010 09:53 AM

REPORT OF LABORATORY ANALYSIS

Page 24 of 24

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>Mundell & Associates</u>	Report To: <u>Sarah Webb</u>	Copy To: <u>1367395</u>	Purchase Order No.: <u>Michigan Q120</u>	Attention: <u>Merle Webb</u>	Project Name: <u>M0046</u>
Address: <u>10 S. Downey Ave</u>	Address: <u>10 S. Downey Ave</u>	Address: <u>10 S. Downey Ave</u>	Address: <u>10 S. Downey Ave</u>	Company Name: <u>Mundell</u>	Company Name: <u>Mundell</u>
Email To: <u>Indpls, IN 46219</u>	Email To: <u>Indpls, IN 46219</u>	Email To: <u>Indpls, IN 46219</u>	Email To: <u>Indpls, IN 46219</u>	Phone: <u>317-630-9360</u>	Phone: <u>317-630-9360</u>
Fax: <u>317-630-9365</u>	Fax: <u>317-630-9365</u>	Fax: <u>317-630-9365</u>	Fax: <u>317-630-9365</u>	Requested Due Date/TAT: <u>25</u>	Requested Due Date/TAT: <u>25</u>
Section D Required Client Information		SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE		Matrix Codes MATRIX / CODE	
Temp in °C <u>10</u>	Custody Sealed/Cooler (Y/N) <u>1</u>	Temp in °C <u>10</u>	Custody Sealed/Cooler (Y/N) <u>1</u>	Drinking Water DW	Drinking Water DW
Preservatives Preservatives	Preservatives Preservatives	Composite Start COMPOSITE START	Composite End/Grab COMPOSITE END/GRAB	Water WW	Water WW
Other Other	Other Other	Oil SL	Oil SL	Product P	Product P
Methanol NaHSO ₃ NaOH HCl HNO ₃ H ₂ SO ₄	Methanol NaHSO ₃ NaOH HCl HNO ₃ H ₂ SO ₄	Wipe AR	Wipe AR	Oil OL	Oil OL
Air TS	Air TS	Tissue OT	Tissue OT	WP WP	WP WP
Other Other	Other Other	Other Other	Other Other	Other Other	Other Other
# <u>1001</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	# OF CONTAINERS SAMPLE TEMP AT COLLECTION	Pace Project No./Lab I.D. <u>1001</u>
1 <u>MWW-1S</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1002</u>
2 <u>MWW-8S</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1003</u>
3 <u>MWW-9S (MS/MSD)</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1004</u>
4 <u>MWW-1DS</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1005</u>
5 <u>MWW-1S</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1006</u>
6 <u>MWW-1D</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1007</u>
7 <u>MWW-12S</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1008</u>
8 <u>MWW-13D</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1009</u>
9 <u>MWW-14D</u>		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1010</u>
10		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1011</u>
11		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1012</u>
12		Date <u>10/12/10</u>	Time <u>10:39 AM</u>	Preservatives Preservatives	Pace Project No./Lab I.D. <u>1013</u>
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION
<u>10/13/10</u>		<u>1138A Tech Inc</u>	<u>10/13/10</u>	<u>11:38 AM</u>	<u>10/13/10 11:38 AM</u>
SAMPLE NAME AND SIGNATURE		PRINT Name of SAMPLER <u>Andy Daniels</u>	DATE Signed <u>10/12/10</u>	SIGNATURE of SAMPLER <u>Andy Daniels</u>	DATE (MM/DD/YY): <u>10/12/10</u>
ORIGINAL		<u>Andy Daniels</u>			

Sample Condition Upon Receipt

Face Analytical

Client Name: Mundell & Assoc.

Project # 5042359

Courier: FedEx UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other foam

Thermometer Used 1 2 3 4 6 A B C D E

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 18°C

Ice Visible in Sample Containers:

yes no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 10/13/10 BS

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. <u>Nitars</u> <u>BS</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: J. Dwyer

Date: 10/13/10

CLIENT: Mundell & Assoc
 COC PAGE 1 of 1
 COC ID# 12673395

Sample Container Count

Project # 5042359

Sample Line Item	DG9H	AG1U	WG FU R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3				1								
2	3												
3	9												
4	3												
5	3												
6	3												
7	3												
8	3												
9	3												
10													
11													
12													

Container Codes

DG9H	40mL HCl amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1 liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	Terra core kit	AG1T	1 liter Na Thiosulfate amber gt	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL H2SO4 plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL H2SO4 plastic	BG1H	1 liter HCl clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassette	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfite amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag



Client Name: Mundell & Associates
Contact: Sarah Webb
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 1 of 8
Lab Proj #: P1010315
Report Date: 10/29/10
Client Proj Name: Michigan Plaza
Client Proj #: M01046

Laboratory Results

Total pages in data package: 9

<u>Lab Sample #</u>	<u>Client Sample ID</u>
P1010315-01	B-1
P1010315-02	B-2
P1010315-03	B-3
P1010315-04	B-4
P1010315-05	B-5
P1010315-06	B-6
P1010315-07	B-7

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo CHH Date: 10.29.10

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

*As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.*

Case Narrative:

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 2 of 8
 Lab Proj #: P1010315
 Report Date: 10/29/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-1	Vapor	P1010315-01		15 Oct. 10 11:15		19 Oct. 10 13:22	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
Risk Analysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/25/10
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	10/25/10
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	10/25/10
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/25/10
N Chloroform		0.0071	0.0050	0.0005	PPMV	AM4.02	10/25/10
N cis-1,2-Dichloroethene	J	0.0084	0.0200	0.0065	PPMV	AM4.02	10/25/10
N Methylene Chloride	U	< 2.0000	2.0000	0.1500	PPMV	AM4.02	10/25/10
N Tetrachloroethene		0.0940	0.0100	0.0006	PPMV	AM4.02	10/25/10
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	10/25/10
N Trichloroethene	J	0.0022	0.0100	0.0008	PPMV	AM4.02	10/25/10
N Vinyl Chloride	J	0.1200	1.0000	0.0400	PPMV	AM4.02	10/25/10



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

PA02-00538

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 3 of 8
 Lab Proj #: P1010315
 Report Date: 10/29/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-2	Vapor	P1010315-02		15 Oct. 10 10:45		19 Oct. 10 13:22	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
Risk Analysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethene	J	0.0017	0.0100	0.0011	PPMV	AM4.02	10/26/10
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N Chloroform	J	0.0011	0.0050	0.0005	PPMV	AM4.02	10/26/10
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	10/26/10
N Methylene Chloride	J	0.1600	2.0000	0.1500	PPMV	AM4.02	10/26/10
N Tetrachloroethene		0.0650	0.0100	0.0006	PPMV	AM4.02	10/26/10
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	10/26/10
N Trichloroethene	J	0.0010	0.0100	0.0008	PPMV	AM4.02	10/26/10
N Vinyl Chloride	J	0.1000	1.0000	0.0400	PPMV	AM4.02	10/26/10



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

PA02-00538

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 4 of 8
 Lab Proj #: P1010315
 Report Date: 10/29/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-3	Vapor	P1010315-03		15 Oct. 10 12:15		19 Oct. 10 13:22	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
Risk Analysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10 mm
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	10/26/10 mm
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	10/26/10 mm
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10 mm
N Chloroform	U	< 0.0050	0.0050	0.0005	PPMV	AM4.02	10/26/10 mm
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	10/26/10 mm
N Methylene Chloride	J	0.2000	2.0000	0.1500	PPMV	AM4.02	10/26/10 mm
N Tetrachloroethene	J	0.0078	0.0100	0.0006	PPMV	AM4.02	10/26/10 mm
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	10/26/10 mm
N Trichloroethene	U	< 0.0100	0.0100	0.0008	PPMV	AM4.02	10/26/10 mm
N Vinyl Chloride	J	0.0900	1.0000	0.0400	PPMV	AM4.02	10/26/10 mm



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

PA02-00538

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 5 of 8
 Lab Proj #: P1010315
 Report Date: 10/29/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-4	Vapor	P1010315-04		13 Oct. 10 15:00		19 Oct. 10 13:22	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
RiskAnalysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethene	J	0.0017	0.0100	0.0011	PPMV	AM4.02	10/26/10
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N Chloroform	J	0.0038	0.0050	0.0005	PPMV	AM4.02	10/26/10
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	10/26/10
N Methylene Chloride	U	< 2.0000	2.0000	0.1500	PPMV	AM4.02	10/26/10
N Tetrachloroethene	J	0.0007	0.0100	0.0006	PPMV	AM4.02	10/26/10
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	10/26/10
N Trichloroethene	U	< 0.0100	0.0100	0.0008	PPMV	AM4.02	10/26/10
N Vinyl Chloride	J	0.1300	1.0000	0.0400	PPMV	AM4.02	10/26/10

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis



PA02-00538

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 6 of 8
 Lab Proj #: P1010315
 Report Date: 10/29/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-5	Vapor	P1010315-05		15 Oct. 10 12:05		19 Oct. 10 13:22	
<u>Analyte(s)</u>	<u>Flag Result</u>	PQL	MDL	Units	Method #	<u>Analysis Date</u>	<u>By</u>
Risk Analysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	10/26/10
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N Chloroform	U	< 0.0050	0.0050	0.0005	PPMV	AM4.02	10/26/10
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	10/26/10
N Methylene Chloride	J	0.1800	2.0000	0.1500	PPMV	AM4.02	10/26/10
N Tetrachloroethene		0.0150	0.0100	0.0006	PPMV	AM4.02	10/26/10
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	10/26/10
N Trichloroethene	U	< 0.0100	0.0100	0.0008	PPMV	AM4.02	10/26/10
N Vinyl Chloride	J	0.0560	1.0000	0.0400	PPMV	AM4.02	10/26/10



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

PA02-00538

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 7 of 8
 Lab Proj #: P1010315
 Report Date: 10/29/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-6	Vapor	P1010315-06		15 Oct. 10 11:50		19 Oct. 10 13:22	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
Risk Analysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	10/26/10
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N Chloroform	U	< 0.0050	0.0050	0.0005	PPMV	AM4.02	10/26/10
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	10/26/10
N Methylene Chloride	U	< 2.0000	2.0000	0.1500	PPMV	AM4.02	10/26/10
N Tetrachloroethene		0.0190	0.0100	0.0006	PPMV	AM4.02	10/26/10
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	10/26/10
N Trichloroethene	U	< 0.0100	0.0100	0.0008	PPMV	AM4.02	10/26/10
N Vinyl Chloride	J	0.0880	1.0000	0.0400	PPMV	AM4.02	10/26/10



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

PA02-00538

Client Name: Mundell & Associates
Contact: Sarah Webb
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 8 of 8
Lab Proj #: P1010315
Report Date: 10/29/10
Client Proj Name: Michigan Plaza
Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-7	Vapor	P1010315-07		15 Oct. 10 11:30		19 Oct. 10 13:22	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
Risk Analysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	10/26/10
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	10/26/10
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	10/26/10
N Chloroform	U	< 0.0050	0.0050	0.0005	PPMV	AM4.02	10/26/10
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	10/26/10
N Methylene Chloride	U	< 2.0000	2.0000	0.1500	PPMV	AM4.02	10/26/10
N Tetrachloroethene	J	0.0022	0.0100	0.0006	PPMV	AM4.02	10/26/10
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	10/26/10
N Trichloroethene	U	< 0.0100	0.0100	0.0008	PPMV	AM4.02	10/26/10
N Vinyl Chloride	U	< 1.0000	1.0000	0.0400	PPMV	AM4.02	10/26/10



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

PA02-00538

APPENDIX B

Air Mitigation Systems: Pounds of Contaminants Removed

Air Mitigation System - Historical Air Analytical Results													
Michigan Plaza													
Indianapolis, Indiana													
MUNDELL Project No.: M01046													
Sample Date	Perchloroethylene (PCE)												
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	
	(ppmv)				(ppm)				($\mu\text{g}/\text{m}^3$)				
9/21/2006	0.6300	0.7900	0.6700	0.2800	0.0043	0.0054	0.0046	0.0019	4281.48	5368.84	4553.32	1902.88	
10/6/2006	0.8800	0.6700	0.9700	0.3100	0.0060	0.0046	0.0066	0.0021	5980.48	4553.32	6592.12	2106.76	
10/13/2006	0.6800	0.3600	0.5200	0.2100	0.0046	0.0024	0.0035	0.0014	4621.28	2446.56	3533.92	1427.16	
10/20/2006	0.8700	0.5500	0.8900	0.2200	0.0059	0.0037	0.0060	0.0015	5912.52	3737.80	6048.44	1495.12	
11/17/2006	0.8100	0.4700	0.7800	0.1500	0.0055	0.0032	0.0053	0.0010	5504.76	3194.12	5300.88	1019.40	
12/27/2006	0.7400	0.4700	0.7500	0.1100	0.0050	0.0032	0.0051	0.0007	5029.04	3194.12	5097.00	747.56	
3/30/2007	0.5100	0.1800	0.5700	0.0310	0.0035	0.0012	0.0039	0.0002	3465.96	1223.28	3873.72	210.68	
6/15/2007	0.0050	0.3100	0.2100	0.4600	0.0000	0.0021	0.0014	0.0031	33.98	2106.76	1427.16	3126.16	
10/16/2007	0.3900	0.2400	0.2800	0.0670	0.0027	0.0016	0.0019	0.0005	2650.44	1631.04	1902.88	455.33	
12/14/2007	0.5800	0.3400	0.5200	0.1400	0.0039	0.0023	0.0035	0.0010	3941.68	2310.64	3533.92	951.44	
3/27/2008	0.5500	NS	0.5600	0.0740	0.0037	NS	0.0038	0.0005	3737.80	NS	3805.76	502.90	
4/1/2008	NS	0.3600	NS	NS	NS	0.0024	NS	NS	NS	2446.56	NS	NS	
6/2/2008	0.7200	0.5600	0.4900	0.1000	0.0049	0.0038	0.0033	0.0007	4893.12	3805.76	3330.04	679.60	
9/12/2008	0.4800	0.4700	0.5300	0.1300	0.0033	0.0032	0.0036	0.0009	3262.08	3194.12	3601.88	883.48	
11/26/2008	0.4600	NS	0.3600	0.1100	0.0031	NS	0.0024	0.0007	3126.16	NS	2446.56	747.56	
3/24/2009	0.4500	NS	0.5500	0.0050	0.0031	NS	0.0037	0.0000	3058.20	NS	3737.80	33.98	
6/15/2009	0.4300	NS	0.4200	0.0200	0.0029	NS	0.0029	0.0001	2922.28	NS	2854.32	135.92	
8/21/2009	0.3600	0.1600	0.4700	0.0140	0.0024	0.0011	0.0032	0.0001	2446.56	1087.36	3194.12	95.14	
11/5/2009	0.3300	0.1400	0.4100	0.0050	0.0022	0.0010	0.0028	0.0000	2242.68	951.44	2786.36	33.98	
2/5/2010	0.1600	0.0370	0.1400	0.0120	0.0011	0.0003	0.0010	0.0001	1087.36	251.45	951.44	81.55	
4/23/2010	0.1300	NS	NS	0.0170	0.0009	NS	NS	0.0001	883.48	NS	NS	115.53	
5/6/2010	NS	0.1500	0.2500	NS	NS	0.0010	0.0017	NS	NS	1019.40	1699.00	NS	
7/23/2010	0.1500	0.1900	0.1200	0.0050	0.0010	0.0013	0.0008	0.0000	1019.40	1291.24	815.52	33.98	
10/13/2010	NS	NS	NS	0.0050	NS	NS	NS	0.0000	NS	NS	NS	33.98	
10/15/2010	0.0940	0.0650	0.0050	NS	0.0006	0.0004	0.0000	NS	638.82	441.74	33.98	NS	

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

Air Mitigation - Historical Air Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu\text{g}/\text{m}^3$)			
9/21/2006	0.0240	0.0120	0.0050	0.0050	0.0001	0.0001	0.0000	0.0000	129.24	64.62	26.93	26.93
10/6/2006	0.0120	0.0050	0.0050	0.0050	0.0001	0.0000	0.0000	0.0000	64.62	26.93	26.93	26.93
10/13/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
10/20/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
11/17/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
12/27/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
3/30/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
6/15/2007	0.4600	0.0050	0.0050	0.0050	0.0025	0.0000	0.0000	0.0000	2,477.10	26.93	26.93	26.93
10/16/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
12/14/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
3/27/2008	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
4/1/2008	NS	0.0050	NS	NS	NS	0.0000	NS	NS	NS	26.93	NS	NS
6/2/2008	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
9/12/2008	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
11/26/2008	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
3/24/2009	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
6/15/2009	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
8/21/2009	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
11/5/2009	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
2/5/2010	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
4/23/2010	0.0050	NS	NS	0.0050	0.0000	NS	NS	0.0000	26.93	NS	NS	26.93
5/6/2010	NS	0.0050	0.0050	NS	NS	0.0000	0.0000	NS	NS	26.93	26.93	NS
7/23/2010	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
10/13/2010	NS	NS	NS	0.0050	NS	NS	NS	0.0000	NS	NS	NS	26.93
10/15/2010	0.0050	0.0050	0.0050	NS	0.0000	0.0000	0.0000	NS	26.93	26.93	26.93	NS

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

Air Mitigation - Historical Air Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu\text{g}/\text{m}^3$)			
9/21/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/6/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/13/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/20/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
11/17/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
12/27/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
3/30/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
6/15/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/16/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
12/14/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
3/27/2008	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42
4/1/2008	NS	0.0150	NS	NS	NS	0.0000	NS	NS	NS	38.42	NS	NS
6/2/2008	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
9/12/2008	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
11/26/2008	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42
3/24/2009	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42
6/15/2009	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42
8/21/2009	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
11/5/2009	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
2/5/2010	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
4/23/2010	0.0150	NS	NS	0.0150	0.0000	NS	NS	0.0000	38.42	NS	NS	38.42
5/6/2010	NS	0.0150	0.0150	NS	NS	0.0000	0.0000	NS	NS	38.42	38.42	NS
7/23/2010	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/13/2010	NS	NS	NS	0.0150	NS	NS	NS	0.0000	NS	NS	NS	38.42
10/15/2010	0.0150	0.0150	0.0150	NS	0.0000	0.0000	0.0000	NS	38.42	38.42	38.42	NS

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

Air Mitigation - Historical Air Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No.: M01046

Sample Date	cis-1,2-Dichloroethylene											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu\text{g}/\text{m}^3$)			
9/21/2006	0.1400	0.0100	0.0100	0.0100	0.0006	0.0000	0.0000	0.0000	556.22	39.73	39.73	39.73
10/6/2006	0.0300	0.0100	0.0100	0.0100	0.0001	0.0000	0.0000	0.0000	119.19	39.73	39.73	39.73
10/13/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
10/20/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
11/17/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
12/27/2006	0.0240	0.0100	0.0100	0.0100	0.0001	0.0000	0.0000	0.0000	95.35	39.73	39.73	39.73
3/30/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
6/15/2007	0.2100	0.0100	0.0100	0.0100	0.0008	0.0000	0.0000	0.0000	834.33	39.73	39.73	39.73
10/16/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
12/14/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
3/27/2008	0.0340	NS	0.0100	0.0100	0.0001	NS	0.0000	0.0000	135.08	NS	39.73	39.73
4/1/2008	NS	0.0100	NS	NS	NS	0.0000	NS	NS	NS	39.73	NS	NS
6/2/2008	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
9/12/2008	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
11/26/2008	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73
3/24/2009	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73
6/15/2009	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73
8/21/2009	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
11/5/2009	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
2/5/2010	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
4/23/2010	0.0100	NS	NS	0.0100	0.0000	NS	NS	0.0000	39.73	NS	NS	39.73
5/6/2010	NS	0.0100	0.0100	NS	NS	0.0000	0.0000	NS	NS	39.73	39.73	NS
7/23/2010	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
10/13/2010	NS	NS	NS	0.0100	NS	NS	NS	0.0000	NS	NS	NS	39.73
10/15/2010	0.0010	0.0100	0.0100	NS	0.0000	0.0000	0.0000	NS	3.97	39.73	39.73	NS

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu\text{g}/\text{m}^3$)		
3/27/2008	0.1300	1.2000	NS	0.0009	0.0082	NS	883.48	8155.20	NS
3/28/2008	0.0730	0.4900	NS	0.0005	0.0033	NS	496.11	3330.04	NS
4/7/2008	NS	NS	0.0760	NS	NS	0.0005	NS	NS	516.50
4/8/2008	NS	NS	0.0470	NS	NS	0.0003	NS	NS	319.41
4/24/2008	0.0540	0.1100	0.0220	0.0004	0.0007	0.0001	366.98	747.56	149.51
5/1/2008	0.0580	0.2100	0.0390	0.0004	0.0014	0.0003	394.17	1427.16	265.04
6/2/2008	0.0590	0.2200	0.0530	0.0004	0.0015	0.0004	400.96	1495.12	360.19
7/10/2008	0.0650	NS	0.0540	0.0004	NS	0.0004	441.74	NS	366.98
8/20/2008	NS	0.2700	NS	NS	0.0018	NS	NS	1834.92	NS
9/12/2008	0.0690	0.1800	0.0540	0.0005	0.0012	0.0004	468.92	1223.28	366.98
11/26/2008	0.0720	0.1100	0.0560	0.0005	0.0007	0.0004	489.31	747.56	380.58
3/24/2009	0.2100	0.1300	0.0590	0.0014	0.0009	0.0004	1427.16	883.48	400.96
6/15/2009	0.0580	0.0840	<i>0.0050</i>	0.0004	0.0006	0.0000	394.17	570.86	33.98
8/21/2009	0.0630	0.0710	<i>0.0050</i>	0.0004	0.0005	0.0000	428.15	482.52	33.98
11/5/2009	0.1300	0.1100	<i>0.0050</i>	0.0009	0.0007	0.0000	883.48	747.56	33.98
2/5/2010	0.0220	0.0800	<i>0.0150</i>	0.0001	0.0005	0.0001	149.51	543.68	101.94
2/6/2010	0.0220	0.0800	<i>0.0150</i>	0.0001	0.0005	0.0001	149.51	543.68	101.94
4/23/2010	0.0120	NS	<i>0.0050</i>	0.0001	NS	0.0000	81.55	NS	33.98
5/12/2010	NS	0.1300	NS	NS	0.0009	NS	NS	883.48	NS
7/23/2010	0.0270	0.1000	<i>0.0050</i>	0.0002	0.0007	0.0000	183.49	679.60	33.98
10/15/2010	0.0150	0.0190	<i>0.0050</i>	0.0001	0.0001	0.0000	101.94	129.12	33.98

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Air Mitigation - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu\text{g}/\text{m}^3$)		
3/27/2008	0.0050	0.0050	NS	0.0000	0.0000	NS	26.93	26.93	NS
3/28/2008	0.0050	0.0050	NS	0.0000	0.0000	NS	26.93	26.93	NS
4/7/2008	NS	NS	0.0050	NS	NS	0.0000	NS	NS	26.93
4/8/2008	NS	NS	0.0050	NS	NS	0.0000	NS	NS	26.93
4/24/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
5/1/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
6/2/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
7/10/2008	0.0050	NS	0.0050	0.0000	NS	0.0000	26.93	NS	26.93
8/20/2008	NS	0.0050	NS	NS	0.0000	NS	NS	26.93	NS
9/12/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
11/26/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
3/24/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
6/15/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
8/21/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
11/5/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
2/5/2010	0.0050	0.0011	0.0050	0.0000	0.0000	0.0000	26.93	5.92	26.93
2/6/2010	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
4/23/2010	0.0050	NS	0.0050	0.0000	NS	0.0000	26.93	NS	26.93
5/12/2010	NS	0.0050	NS	NS	0.0000	NS	NS	26.93	NS
7/23/2010	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
10/15/2010	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

Air Mitigation - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu\text{g}/\text{m}^3$)		
3/27/2008	0.0150	0.0150	NS	0.0000	0.0000	NS	38.42	38.42	NS
3/28/2008	0.0150	0.0150	NS	0.0000	0.0000	NS	38.42	38.42	NS
4/7/2008	NS	NS	0.0150	NS	NS	0.0000	NS	NS	38.42
4/8/2008	NS	NS	0.0150	NS	NS	0.0000	NS	NS	38.42
4/24/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
5/1/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
6/2/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
7/10/2008	0.0150	NS	0.0150	0.0000	NS	0.0000	38.42	NS	38.42
8/20/2008	NS	0.0150	NS	NS	0.0000	NS	NS	38.42	NS
9/12/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
11/26/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
3/24/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
6/15/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
8/21/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
11/5/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
2/5/2010	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
2/6/2010	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
4/23/2010	0.0150	NS	0.0150	0.0000	NS	0.0000	38.42	NS	38.42
5/12/2010	NS	0.0150	NS	NS	0.0000	NS	NS	38.42	NS
7/23/2010	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
10/15/2010	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42

NS = Not sampled

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Air Mitigation - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	cis-1,2-Dichloroethylene								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu\text{g}/\text{m}^3$)		
3/27/2008	0.0100	0.0100	NS	0.0000	0.0000	NS	39.73	39.73	NS
3/28/2008	0.0100	0.0100	NS	0.0000	0.0000	NS	39.73	39.73	NS
4/7/2008	NS	NS	0.0100	NS	NS	0.0000	NS	NS	39.73
4/8/2008	NS	NS	0.0100	NS	NS	0.0000	NS	NS	39.73
4/24/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
5/1/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
6/2/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
7/10/2008	0.0100	NS	0.0100	0.0000	NS	0.0000	39.73	NS	39.73
8/20/2008	NS	0.0100	NS	NS	0.0000	NS	NS	39.73	NS
9/12/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
11/26/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
3/24/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
6/15/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
8/21/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
11/5/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
2/5/2010	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
2/6/2010	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
4/23/2010	0.0100	NS	0.0100	0.0000	NS	0.0000	39.73	NS	39.73
5/12/2010	NS	0.0100	NS	NS	0.0000	NS	NS	39.73	NS
7/23/2010	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
10/15/2010	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

Lab Data for Air Mitigation System B-1
Fourth Quarter 2010
10/13/2010 & 10/15/10
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-1 (Lab Data)													B-1 (PID Readings)									
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed (ug/m³)	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
9/21/2006	0.5	73	2,190	4,281	0.00	129	0.00	38	0.00	556	0.00	0.00	0.00	0.00	9/21/2006	0.5	73	2,190	4.9	10,439	0.00	0.00
10/6/2006	360	73	1,576,800	5,980	0.59	65	0.01	38	0.00	119	0.01	0.61	0.59	0.61	9/28/2006	168	73	735,840	1.9	4,841	0.22	0.22
10/13/2006	168	73	735,840	4,621	0.21	27	0.00	38	0.00	40	0.00	0.22	0.80	0.83	10/6/2006	192	73	840,960	1.0	3,162	0.17	0.39
10/20/2006	168	73	735,840	5,913	0.27	27	0.00	38	0.00	40	0.00	0.28	1.07	1.10	10/13/2006	168	73	735,840	0.6	2,322	0.11	0.50
11/17/2006	672	73	2,943,360	5,505	1.01	27	0.00	38	0.01	40	0.01	1.03	2.08	2.13	10/20/2006	168	73	735,840	0.3	1,902	0.09	0.58
12/27/2006	960	73	4,204,800	5,029	1.32	27	0.01	38	0.01	95	0.03	1.36	3.40	3.50	11/17/2006	672	73	2,943,360	0.1	1,483	0.27	0.86
3/30/2007	2,232	73	9,776,160	3,466	2.11	27	0.02	38	0.02	40	0.02	2.18	5.52	5.67	12/27/2006	960	73	4,204,800	0.0	1,296	0.34	1.20
6/15/2007	1,848	73	8,094,240	34	0.02	2,477	1.25	38	0.02	834	0.42	1.71	5.53	7.38	6/15/2007	4,080	73	17,870,400	0.1	1,483	1.65	2.85
10/16/2007	2,952	73	12,929,760	2,650	2.14	27	0.02	38	0.03	40	0.03	2.22	7.67	9.60	10/16/2007	2,952	73	12,929,760	0.1	1,483	1.20	4.04
12/14/2007	1,416	73	6,202,080	3,942	1.52	27	0.01	38	0.01	40	0.02	1.57	9.20	11.17	12/14/2007	1,416	73	6,202,080	0.1	1,483	0.57	4.62
3/27/2008	2,496	73	10,932,480	3,738	2.55	27	0.02	38	0.03	135	0.09	2.69	11.74	13.86	3/27/2008	2,496	73	10,932,480	1.7	4,468	3.05	7.66
6/2/2008	1,608	73	7,043,040	4,893	2.15	27	0.01	38	0.02	40	0.02	2.20	13.89	16.05	6/2/2008	1,608	73	7,043,040	2.2	5,401	2.37	10.04
9/12/2008	2,448	73	10,722,240	3,262	2.18	27	0.02	38	0.03	40	0.03	2.25	16.08	18.30	9/12/2008	2,448	73	10,722,240	0.3	1,856	1.24	11.28
11/26/2008	1,800	73	7,884,000	3,126	1.54	27	0.01	38	0.02	40	0.02	1.59	17.61	19.89	11/26/2008	1,800	73	7,884,000	0.1	1,483	0.73	12.01
3/24/2009	2,832	73	12,404,160	3,058	2.37	27	0.02	38	0.03	40	0.03	2.45	19.98	22.34	3/24/2009	2,832	73	12,404,160	0.2	1,669	1.29	13.30
6/15/2009	1,992	73	8,724,960	2,922	1.59	27	0.01	38	0.02	40	0.02	1.65	21.57	23.99	6/15/2009	1,992	73	8,724,960	0.2	1,669	0.91	14.21
8/21/2009	1,608	73	7,043,040	2,447	1.07	27	0.01	38	0.02	40	0.02	1.12	22.65	25.11	8/21/2009	1,608	73	7,043,040	0.2	1,669	0.73	14.94
11/5/2009	1,824	73	7,989,120	2,243	1.12	27	0.01	38	0.02	40	0.02	1.17	23.76	26.28	11/5/2009	1,824	73	7,989,120	0.2	1,669	0.83	15.77
2/5/2010	2,208	73	9,671,040	1,087	0.66	27	0.02	38	0.02	40	0.02	0.72	24.42	27.00	2/5/2010	2,208	73	9,671,040	2.3	5,588	3.37	19.14
4/23/2010	1,848	74	8,205,120	883	0.45	27	0.01	38	0.02	40	0.02	0.51	24.87	27.50	5/6/2010	2,160	74	9,590,400	3.3	7,454	4.46	23.60
7/23/2010	2,184	55	7,207,200	1,019	0.46	27	0.01	38	0.02	40	0.02	0.51	25.33	28.01	9/1/2010	2,832	55	9,345,600	1.9	4,841	2.82	26.43
10/15/2010	2,016	73	8,830,080	639	0.35	27	0.01	38	0.02	4	0.00	0.39	25.68	28.40	10/15/2010	1,056	73	4,625,280	2.0	5,028	1.45	27.88
TOTALS:	35,641		153,857,550		25.68		1.50		0.37		0.85		28.40		TOTALS:	35,641		153,176,430		27.88		

Lab Data for Air Mitigation System B-2

Fourth Quarter 2010

10/13/2010 & 10/15/10

Michigan Plaza

3801-3823 West Michigan Street

Indianapolis, Indiana

MUNDELL Project No.: M01046

B-2 (Lab Data)													B-2 (PID Readings)																
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)							
9/21/2006	0.5	37	1,110	5,369	0.00	65	0.00	38	0.00	40	0.00	0.00	0.00	0.00	9/21/2006	0.5	37	1,110	2.0	5,028	0.00	0.00							
10/6/2006	360	37	799,200	4,553	0.23	27	0.00	38	0.00	40	0.00	0.23	0.23	0.23	9/28/2006	168	37	372,960	2.0	5,028	0.12	0.12							
10/13/2006	168	37	372,960	2,447	0.06	27	0.00	38	0.00	40	0.00	0.06	0.28	0.28	10/6/2006	192	37	426,240	1.1	3,255	0.09	0.20							
10/20/2006	168	37	372,960	3,738	0.09	27	0.00	38	0.00	40	0.00	0.09	0.37	0.38	10/13/2006	168	37	372,960	0.6	2,369	0.06	0.26							
11/17/2006	672	37	1,491,840	3,194	0.30	27	0.00	38	0.00	40	0.00	0.31	0.67	0.69	10/20/2006	168	37	372,960	0.3	1,926	0.04	0.30							
12/27/2006	960	37	2,131,200	3,194	0.42	27	0.00	38	0.01	40	0.01	0.44	1.09	1.13	11/17/2006	672	37	1,491,840	0.1	1,483	0.14	0.44							
3/30/2007	2,232	38	5,088,960	1,223	0.39	27	0.01	38	0.01	40	0.01	0.42	1.48	1.55	12/27/2006	960	37	2,131,200	0.1	1,483	0.20	0.64							
6/15/2007	1,848	42	4,656,960	2,107	0.61	27	0.01	38	0.01	40	0.01	0.64	2.09	2.19	6/15/2007	4,080	41	10,036,800	0.1	1,483	0.93	1.57							
10/16/2007	2,952	48	8,501,760	1,631	0.86	27	0.01	38	0.02	40	0.02	0.92	2.96	3.11	10/16/2007	2,952	48	8,501,760	0.1	1,483	0.79	2.35							
12/14/2007	1,416	53	4,502,880	2,311	0.65	27	0.01	38	0.01	40	0.01	0.68	3.61	3.79	12/14/2007	1,416	53	4,502,880	0.1	1,483	0.42	2.77							
4/1/2008	2,616	50	7,848,000	2,447	1.20	27	0.01	38	0.02	40	0.02	1.25	4.81	5.04	6/2/2008	4,104	46.5	11,450,160	1.5	4,095	2.92	5.69							
6/2/2008	1,488	42	3,705,120	3,806	0.88	27	0.01	38	0.01	40	0.01	0.90	5.68	5.94	9/12/2008	2,448	37	5,434,560	0.5	2,229	0.76	6.45							
9/12/2008	2,448	37	5,434,560	3,194	1.08	27	0.01	38	0.01	40	0.01	1.12	6.77	7.06	11/5/2009	1,440	37	3,196,800	0.1	1,483	0.30	6.75							
8/21/2009	1,440	37	3,196,800	1,087	0.22	27	0.01	38	0.01	40	0.01	0.24	6.98	7.30	2/5/2010	2,208	37	4,901,760	0.6	2,416	0.74	7.48							
11/5/2009	1,824	37	4,049,280	951	0.24	27	0.01	38	0.01	40	0.01	0.27	7.22	7.57	5/6/2010	2,160	37	4,795,200	1.4	3,908	1.17	8.65							
2/5/2010	2,208	37	4,901,760	251	0.08	27	0.01	38	0.01	40	0.01	0.11	7.30	7.68	9/1/2010	2,832	37	6,287,040	3.0	6,894	2.70	11.36							
5/6/2010	2,160	37	4,795,200	1,019	0.30	27	0.01	38	0.01	40	0.01	0.34	7.61	8.01	10/15/2010	1,056	55	3,484,800	3.2	7,267	1.58	12.94							
7/23/2010	1,872	37	4,155,840	1,291	0.33	27	0.01	38	0.01	40	0.01	0.36	7.94	8.37	TOTALS:	28,849	72,659,190	8.12	0.12	0.17	0.18	8.60	67,761,030	27,025	67,761,030	12.94	12.94	12.94	12.94
10/15/2010	2,016	55	6,652,800	442	0.18	27	0.01	38	0.02	40	0.02	0.23	8.12	8.60															

Lab Data for Air Mitigation System B-3

Fourth Quarter 2010

10/13/2010 & 10/15/10

Michigan Plaza

3801-3823 West Michigan Street

Indianapolis, Indiana

MUNDELL Project No.: M01046

B-3 (Lab Data)													B-3 (PID Readings)									
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
9/21/2006	0.5	132	3,960	4,553	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	9/21/2006	0.5	132	3,960	1.8	4,655	0.00	0.00
10/6/2006	360	132	2,851,200	6,592	1.17	27	0.00	38	0.01	40	0.01	1.19	1.17	1.19	9/28/2006	168	132	1,330,560	2.2	5,401	0.45	0.45
10/13/2006	168	132	1,330,560	3,534	0.29	27	0.00	38	0.00	40	0.00	0.30	1.47	1.49	10/6/2006	192	132	1,520,640	2.1	5,215	0.49	0.94
10/20/2006	168	132	1,330,560	6,048	0.50	27	0.00	38	0.00	40	0.00	0.51	1.97	2.01	10/13/2006	168	132	1,330,560	2.1	5,121	0.43	1.37
11/17/2006	672	132	5,322,240	5,301	1.76	27	0.01	38	0.01	40	0.01	1.79	3.73	3.80	10/20/2006	168	132	1,330,560	2.0	5,075	0.42	1.79
12/27/2006	960	132	7,603,200	5,097	2.42	27	0.01	38	0.02	40	0.02	2.47	6.15	6.27	11/17/2006	672	132	5,322,240	2.0	5,028	1.67	3.46
3/30/2007	2,232	132	17,677,440	3,874	4.27	27	0.03	38	0.04	40	0.04	4.39	10.42	10.65	12/27/2006	960	132	7,603,200	0.1	1,483	0.70	4.16
6/15/2007	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	40	0.04	1.40	11.72	12.05	6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	7.15
10/16/2007	2,952	132	23,379,840	1,903	2.78	27	0.04	38	0.06	40	0.06	2.93	14.50	14.98	10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	9.31
12/14/2007	1,416	132	11,214,720	3,534	2.47	27	0.02	38	0.03	40	0.03	2.55	16.97	17.53	12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	10.35
3/27/2008	2,496	132	19,768,320	3,806	4.69	27	0.03	38	0.05	40	0.05	4.82	21.66	22.35	3/27/2008	2,496	132	19,768,320	1.3	3,722	4.59	14.94
6/2/2008	1,608	132	12,735,360	3,330	2.65	27	0.02	38	0.03	40	0.03	2.73	24.31	25.08	6/2/2008	1,608	132	12,735,360	1.2	3,535	2.81	17.75
9/12/2008	2,448	132	19,388,160	3,602	4.36	27	0.03	38	0.05	40	0.05	4.48	28.66	29.56	9/12/2008	2,448	132	19,388,160	0.5	2,229	2.70	20.44
11/26/2008	1,800	132	14,256,000	2,447	2.18	27	0.02	38	0.03	40	0.04	2.27	30.84	31.83	11/26/2008	1,800	132	14,256,000	0.4	2,042	1.82	22.26
3/24/2009	2,832	132	22,429,440	3,738	5.23	27	0.04	38	0.05	40	0.06	5.38	36.07	37.21	3/24/2009	2,832	132	22,429,440	0.6	2,416	3.38	25.64
6/15/2009	1,992	132	15,776,640	2,854	2.81	27	0.03	38	0.04	40	0.04	2.91	38.88	40.12	6/15/2009	1,992	132	15,776,640	0.6	2,416	2.38	28.02
8/21/2009	1,608	132	12,735,360	3,194	2.54	27	0.02	38	0.03	40	0.03	2.62	41.41	42.74	8/31/2009	1,848	132	14,636,160	0.6	2,416	2.21	30.22
11/5/2009	1,824	132	14,446,080	2,786	2.51	27	0.02	38	0.03	40	0.04	2.61	43.93	45.35	11/5/2009	1,584	132	12,545,280	0.6	2,416	1.89	32.11
2/5/2010	2,208	132	17,487,360	951.44	1.04	26.93	0.03	38	0.04	40	0.04	1.15	44.96	46.50	2/5/2010	2,208	132	17,487,360	1.5	4,095	4.47	36.58
5/6/2010	2,160	132	17,107,200	1,699	1.81	27	0.03	38	0.04	40	0.04	1.93	46.78	48.42	5/6/2010	2,160	152	19,699,200	1.7	4,468	5.49	42.07
7/23/2010	1,872	132	14,826,240	816	0.75	27	0.02	38	0.04	40	0.04	0.85	47.53	49.28	9/1/2010	NS	NS	NS	NS	NS	NS	NS
10/15/2010	2,016	132	15,966,720	34	0.03	27	0.03	38	0.04	40	0.04	0.14	47.56	49.41	10/15/2010	1,056	132	8,363,520	0.1	1,483	0.77	42.84
TOTALS:	35,641		282,272,760		47.56		0.47		0.68		0.70		49.41		TOTALS:	32,809		262,435,320		42.84		

Lab Data for Air Mitigation System B-4

Fourth Quarter 2010

10/13/2010 & 10/15/10

Michigan Plaza

3801-3823 West Michigan Street

Indianapolis, Indiana

MUNDELL Project No.: M01046

B-4 (Lab Data)													B-4 (PID Readings)									
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
9/21/2006	0.5	132	3,960	1,903	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	9/21/2006	0.5	132	3,960	0.2	1,669	0.00	0.00
10/6/2006	360	132	2,851,200	2,107	0.37	27	0.00	38	0.01	40	0.01	0.39	0.38	0.39	9/28/2006	168	132	1,330,560	0.4	2,042	0.17	0.17
10/13/2006	168	132	1,330,560	1,427	0.12	27	0.00	38	0.00	40	0.00	0.13	0.49	0.52	10/6/2006	192	132	1,520,640	0.3	1,763	0.17	0.34
10/20/2006	168	132	1,330,560	1,495	0.12	27	0.00	38	0.00	40	0.00	0.13	0.62	0.65	10/13/2006	168	132	1,330,560	0.2	1,623	0.13	0.47
11/17/2006	672	132	5,322,240	1,019	0.34	27	0.01	38	0.01	40	0.01	0.37	0.96	1.03	10/20/2006	168	132	1,330,560	0.1	1,553	0.13	0.60
12/27/2006	960	132	7,603,200	748	0.35	27	0.01	38	0.02	40	0.02	0.40	1.31	1.43	11/17/2006	672	132	5,322,240	0.1	1,483	0.49	1.09
3/30/2007	2,232	130	17,342,640	211	0.23	27	0.03	38	0.04	40	0.04	0.34	1.54	1.77	12/27/2006	960	132	7,603,200	0.1	1,483	0.70	1.80
6/15/2007	1,848	125	13,887,720	3,126	2.71	27	0.02	38	0.03	40	0.03	2.80	4.25	4.57	6/15/2007	4,080	127.75	31,273,200	0.1	1,483	2.89	4.69
10/16/2007	2,952	128	22,627,080	455	0.64	27	0.04	38	0.05	40	0.06	0.79	4.89	5.36	10/16/2007	2,952	128	22,671,360	0.1	1,483	2.10	6.78
12/14/2007	1,416	132	11,214,720	951	0.67	27	0.02	38	0.03	40	0.03	0.74	5.56	6.10	12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	7.82
3/27/2008	2,496	128	19,094,400	503	0.60	27	0.03	38	0.05	40	0.05	0.72	6.15	6.83	3/29/2008	2,544	128	19,537,920	1.8	4,655	5.67	13.50
6/2/2008	1,608	119	11,481,120	680	0.49	27	0.02	38	0.03	40	0.03	0.56	6.64	7.39	6/2/2008	1,560	119	11,138,400	0.3	1,856	1.29	14.78
9/12/2008	2,448	132	19,388,160	883	1.07	27	0.03	38	0.05	40	0.05	1.20	7.71	8.58	9/12/2008	2,448	132	19,388,160	0.4	2,042	2.47	17.25
11/26/2008	1,800	132	14,256,000	748	0.66	27	0.02	38	0.03	40	0.04	0.76	8.37	9.34	11/26/2008	1,800	132	14,256,000	0.1	1,483	1.32	18.57
3/24/2009	2,832	132	22,429,440	34	0.05	27	0.04	38	0.05	40	0.06	0.19	8.42	9.54	3/24/2009	2,832	132	22,429,440	0.3	1,763	2.47	21.04
6/15/2009	1,992	132	15,776,640	136	0.13	27	0.03	38	0.04	40	0.04	0.24	8.56	9.77	6/15/2009	1,992	132	15,776,640	0.3	1,856	1.83	22.87
8/21/2009	1,608	132	12,735,360	95	0.08	27	0.02	38	0.03	40	0.03	0.16	8.63	9.93	8/31/2009	1,848	132	14,636,160	0.3	1,856	1.69	24.56
11/5/2009	1,824	132	14,446,080	34	0.03	27	0.02	38	0.03	40	0.04	0.13	8.66	10.06	11/5/2009	1,584	132	12,545,280	0.3	1,856	1.45	26.01
2/5/2010	2,208	132	17,487,360	82	0.09	27	0.03	38	0.04	40	0.04	0.20	8.75	10.26	2/5/2010	2,208	132	17,487,360	0.6	2,416	2.64	28.65
4/23/2010	1,848	132	14,636,160	116	0.11	27	0.02	38	0.04	40	0.04	0.20	8.86	10.46	5/6/2010	2,160	132	17,107,200	0.6	2,416	2.58	31.22
7/23/2010	2,184	115	15,069,600	34	0.03	27	0.03	38	0.04	40	0.04	0.13	8.89	10.59	9/1/2010	2,832	115	19,540,800	0.3	1,856	2.26	33.49
10/13/2010	1,968	115	13,579,200	34	0.03	27	0.02	38	0.03	40	0.03	0.12	8.92	10.71	10/13/2010	1,008	115	6,955,200	0.5	2,229	0.97	34.45
TOTALS:	35,593		273,893,400		8.92		0.46		0.66		0.68		10.71		TOTALS:	35,593		274,399,560		34.45		

Lab Data for Air Mitigation System B-5

**Fourth Quarter 2010
10/13/2010 & 10/15/10
Michigan Plaza**

**3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046**

B-5 (Lab Data)													B-5 (PID Readings)																				
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)											
3/27/2008	0.5	130	3,900	883	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	3/29/2008	50	119	357,000	0.1	1,483	0.03	0.03											
3/28/2008	24	127	182,880	496	0.01	27	0.00	38	0.00	40	0.00	0.01	0.01	0.01	3/31/2008	48	118	339,840	0.2	1,669	0.04	0.07											
4/24/2008	648	120	4,665,600	367	0.11	27	0.01	38	0.01	40	0.01	0.14	0.11	0.14	5/1/2008	744	116	5,178,240	0.1	1,483	0.48	0.55											
5/1/2008	168	115	1,159,200	394	0.03	27	0.00	38	0.00	40	0.00	0.04	0.14	0.18	6/2/2008	768	114	5,253,120	0.2	1,669	0.55	1.09											
6/2/2008	768	114	5,253,120	401	0.13	27	0.01	38	0.01	40	0.01	0.17	0.27	0.35	9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	2.64											
7/10/2008	912	115	6,292,800	442	0.17	27	0.01	38	0.02	40	0.02	0.21	0.45	0.56	11/26/2008	1,800	113	12,204,000	0.1	1,483	1.13	3.77											
9/12/2008	1,536	114	10,506,240	469	0.31	27	0.02	38	0.03	40	0.03	0.38	0.75	0.94	3/24/2009	2,832	122	20,730,240	0.1	1,483	1.92	5.69											
11/26/2008	1,800	113	12,204,000	489	0.37	27	0.02	38	0.03	40	0.03	0.45	1.13	1.39	6/15/2009	1,992	122	14,581,440	0.1	1,483	1.35	7.04											
3/24/2009	2,832	122	20,730,240	1,427	1.85	27	0.03	38	0.05	40	0.05	1.98	2.97	3.37	8/31/2009	1,848	122	13,527,360	0.1	1,483	1.25	8.29											
6/15/2009	1,992	122	14,581,440	394	0.36	27	0.02	38	0.03	40	0.04	0.45	3.33	3.83	11/5/2009	1,584	122	11,594,880	0.1	1,483	1.07	9.36											
8/21/2009	1,608	122	11,770,560	428	0.31	27	0.02	38	0.03	40	0.03	0.39	3.64	4.22	2/5/2010	2,208	122	16,162,560	0.5	2,229	2.25	11.61											
11/5/2009	1,824	122	13,351,680	883	0.74	27	0.02	38	0.03	40	0.03	0.82	4.38	5.04	5/6/2010	2,160	110	14,256,000	1.4	3,908	3.48	15.08											
2/5/2010	2,208	122	16,162,560	150	0.15	26.93	0.03	38	0.04	40	0.04	0.26	4.53	5.30	9/1/2010	2,832	115	19,540,800	0.3	1,856	2.26	17.35											
4/23/2010	1,848	110	12,196,800	82	0.06	27	0.02	38	0.03	40	0.03	0.14	4.59	5.44	10/15/2010	1,056	152	9,630,720	0.4	2,042	1.23	18.57											
7/23/2010	2,184	115	15,069,600	183	0.17	27	0.03	38	0.04	40	0.04	0.27	4.77	5.71	TOTALS:	22,369		162,516,540		4.88	0.27		0.39		0.40		5.95			160,100,520		18.57	
10/15/2010	2,016	152	18,385,920	102	0.12	27	0.03	38	0.04	40	0.05	0.24	4.88	5.95																			
TOTALS:	22,369		162,516,540		4.88		0.27		0.39		0.40		5.95																				

Lab Data for Air Mitigation System B-6
Fourth Quarter 2010
10/13/2010 & 10/15/10
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-6 (Lab Data)													B-6 (PID Readings)									
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
3/27/2008	0.5	130	3,900	8,155	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	3/29/2008	50	110	330,000	1.7	4,468	0.09	0.09
3/28/2008	24	119	171,144	3,330	0.04	27	0.00	38	0.00	40	0.00	0.04	0.04	0.04	3/31/2008	48	111	319,680	0.1	1,483	0.03	0.12
4/24/2008	648	114	4,426,488	748	0.21	27	0.01	38	0.01	40	0.01	0.24	0.24	0.27	5/1/2008	744	118	5,267,520	0.3	1,856	0.61	0.73
5/1/2008	168	123	1,234,800	1,427	0.11	27	0.00	38	0.00	40	0.00	0.12	0.35	0.39	6/2/2008	768	120	5,529,600	1.1	3,349	1.16	1.89
6/2/2008	768	120	5,506,560	1,495	0.51	27	0.01	38	0.01	40	0.01	0.55	0.87	0.94	9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	3.43
8/20/2008	1,896	120	13,651,200	1,835	1.56	27	0.02	38	0.03	40	0.03	1.65	2.43	2.59	11/26/2008	1,800	114	12,312,000	0.2	1,669	1.28	4.72
9/12/2008	552	114	3,775,680	1,223	0.29	27	0.01	38	0.01	40	0.01	0.31	2.72	2.91	3/24/2009	2,832	118	20,050,560	0.3	1,856	2.32	7.04
11/26/2008	1,800	112	12,096,000	748	0.56	27	0.02	38	0.03	40	0.03	0.64	3.28	3.55	6/15/2009	1,992	118	14,103,360	0.3	1,856	1.63	8.67
3/24/2009	2,832	118	20,050,560	883	1.10	27	0.03	38	0.05	40	0.05	1.24	4.39	4.79	8/31/2009	1,848	118	13,083,840	0.3	1,856	1.51	10.19
6/15/2009	1,992	118	14,103,360	571	0.50	27	0.02	38	0.03	40	0.03	0.59	4.89	5.38	11/5/2009	1,584	118	11,214,720	0.3	1,856	1.30	11.48
8/21/2009	1,608	118	11,384,640	483	0.34	27	0.02	38	0.03	40	0.03	0.42	5.23	5.80	2/5/2010	2,208	118	15,632,640	0.9	2,975	2.90	14.38
11/5/2009	1,824	118	12,913,920	748	0.60	27	0.02	38	0.03	40	0.03	0.69	5.83	6.49	5/12/2010	2,304	93	12,856,320	1.7	4,468	3.58	17.97
2/5/2010	2,208	118	15,632,640	544	0.53	6	0.01	38	0.04	40	0.04	0.61	6.36	7.10	9/1/2010	2,688	132	21,288,960	0.6	2,416	3.21	21.18
4/23/2010	1,848	93	10,311,840	NS	0.00	NS	0.00	NS	0.00	NS	0.00	0.00	6.36	7.10	10/15/2010	1,056	152	9,630,720	0.5	2,229	1.34	22.52
7/23/2010	2,184	132	17,297,280	680	0.73	27	0.03	38	0.04	40	0.04	0.85	7.10	7.94	TOTALS:	22,370		158,364,240		22.52		
10/15/2010	2,016	152	18,385,920	129	0.15	27	0.03	38	0.04	40	0.05	0.27	7.25	8.21								
TOTALS:	22,369		160,945,932		7.25		0.23		0.36		0.37		8.21									

Lab Data for Air Mitigation System B-7

Fourth Quarter 2010

10/13/2010 & 10/15/10

Michigan Plaza

3801-3823 West Michigan Street

Indianapolis, Indiana

MUNDELL Project No.: M01046

B-7 (Lab Data)														B-7 (PID Readings)								
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
4/7/2008	0.5	118	3,540	516	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	5/1/2008	576	120	4,147,200	0.1	1,483	0.38	0.38
4/8/2008	24	118	169,920	319	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	6/2/2008	768	117	5,391,360	0.3	1,856	0.62	1.01
4/24/2008	384	118	2,718,720	150	0.03	27	0.00	38	0.01	40	0.01	0.04	0.03	0.05	9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	2.56
5/1/2008	168	120	1,209,600	265	0.02	27	0.00	38	0.00	40	0.00	0.03	0.05	0.08	11/26/2008	1,800	112	12,096,000	0.2	1,669	1.26	3.82
6/2/2008	768	117	5,391,360	360	0.12	27	0.01	38	0.01	40	0.01	0.16	0.17	0.23	3/24/2009	2,832	118	20,050,560	0.3	1,856	2.32	6.14
7/10/2008	912	118	6,456,960	367	0.15	27	0.01	38	0.02	40	0.02	0.19	0.32	0.42	6/15/2009	1,992	118	14,103,360	0.3	1,856	1.63	7.77
9/12/2008	1,536	114	10,506,240	367	0.24	27	0.02	38	0.03	40	0.03	0.31	0.56	0.73	8/31/2009	1,848	118	13,083,840	0.3	1,856	1.51	9.28
11/26/2008	1,800	112	12,096,000	381	0.29	27	0.02	38	0.03	40	0.03	0.37	0.85	1.10	11/5/2009	1,584	118	11,214,720	0.3	1,856	1.30	10.58
3/24/2009	2,832	118	20,050,560	401	0.50	27	0.03	38	0.05	40	0.05	0.63	1.35	1.73	2/5/2010	2,208	118	15,632,640	0.1	1,483	1.45	12.03
6/15/2009	1,992	118	14,103,360	34	0.03	27	0.02	38	0.03	40	0.03	0.12	1.38	1.85	5/6/2010	2,160	130	16,848,000	0.3	1,856	1.95	13.98
8/21/2009	1,608	118	11,384,640	34	0.02	27	0.02	38	0.03	40	0.03	0.10	1.40	1.95	9/1/2010	2,832	152	25,827,840	0.0	1,296	2.09	16.07
11/5/2009	1,824	118	12,913,920	34	0.03	27	0.02	38	0.03	40	0.03	0.11	1.43	2.06	10/15/2010	1,056	152	9,630,720	0.1	1,483	0.89	16.96
2/5/2010	2,208	118	15,632,640	102	0.10	27	0.03	38	0.04	40	0.04	0.20	1.53	2.27	TOTALS:	22,104		164,770,560		16.96		
4/23/2010	1,848	118	13,083,840	34	0.03	27	0.02	38	0.03	40	0.03	0.11	1.56	2.38								
7/23/2010	2,184	152	19,918,080	34	0.04	27	0.03	38	0.05	40	0.05	0.17	1.60	2.55								
10/15/2010	2,016	152	18,385,920	34	0.04	27	0.03	38	0.04	40	0.05	0.16	1.64	2.71								
TOTALS:	22,105		164,025,300		1.64		0.28		0.39		0.41		2.71									

Michigan Plaza
Fourth Quarter 2010
10/13/2010 & 10/15/10
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-1-B-4)				
Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.14
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
4/1/2008	1.20	44.36	1.25	48.07
6/2/2008	6.16	50.53	6.39	54.46
9/12/2008	8.69	59.22	9.05	63.51
11/26/2008	4.38	63.59	4.62	68.13
3/24/2009	7.64	71.24	8.02	76.15
6/15/2009	4.53	75.77	4.80	80.94
8/21/2009	3.90	79.67	4.14	85.08
11/5/2009	3.90	83.57	4.17	89.25
2/5/2010	1.77	85.35	1.98	91.23
4/23/2010	0.45	85.80	0.51	91.74
7/23/2010	1.55	87.34	1.72	93.46
10/15/2010	0.57	87.91	0.76	94.21

Michigan Apartments
Fourth Quarter 2010
10/13/2010 & 10/15/10
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-5-B-7)				
Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.00	0.00	0.00	0.00
3/28/2008	0.04	0.04	0.04	0.05
4/7/2008	0.00	0.04	0.00	0.05
4/8/2008	0.00	0.05	0.00	0.05
4/24/2008	0.34	0.39	0.42	0.47
5/1/2008	0.16	0.54	0.18	0.65
6/2/2008	0.77	1.31	0.87	1.52
7/10/2008	0.32	1.63	0.40	1.93
8/20/2008	1.56	3.19	1.65	3.58
9/12/2008	0.84	4.03	1.00	4.58
11/26/2008	1.22	5.25	1.46	6.04
3/24/2009	3.45	8.71	3.85	9.89
6/15/2009	0.89	9.60	1.17	11.06
8/21/2009	0.68	10.28	0.91	11.97
11/5/2009	1.40	11.67	1.75	13.71
2/5/2010	0.87	12.54	1.27	14.99
4/23/2010	0.17	12.71	0.34	15.33
7/23/2010	0.94	13.65	1.25	16.58
10/15/2010	0.27	13.91	0.51	17.09